

ANDROID PROGRAMMING SAMPLE PROGRAMS

1. Hello World Program (Write a program to Toast Hello World)

activity_main.xml file

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".ToastMainActivity" >

    <Button
        android:id="@+id/buttonToast"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="44dp"
        android:layout_marginTop="74dp"
        android:text="Show Toast" />

</RelativeLayout>

```

MainActivity.java file

```

package gems.andoubleos.onetooth;

import android.os.Bundle;
import android.widget.Button;
import android.widget.Toast;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;

public class ToastMainActivity extends Activity {
    private Button button;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_toast_main);

        button = (Button) findViewById(R.id.buttonToast);

        button.setOnClickListener(new OnClickListener() {
            public void onClick(View arg0) {

                Toast.makeText(getApplicationContext(),
                    "Hello World", Toast.LENGTH_LONG).show();
            }
        });
    }
}

```

Output



2. Addition of two Numbers (Write a program to add two numbers)

activity_main.xml file

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="97dp"
        android:text="Addition"
        android:textAppearance="?android:attr/textAppearanceMedium" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textView1"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="43dp" />
```

```
    android:text="Number One"
    android:textAppearance="?android:attr/textAppearanceMedium" />

<EditText
    android:id="@+id/txtNumber1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBottom="@+id/textView2"
    android:layout_alignRight="@+id/textView1"
    android:ems="2"
    android:inputType="number" >

    <requestFocus />
</EditText>

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/textView2"
    android:layout_below="@+id/textView2"
    android:layout_marginTop="47dp"
    android:text="Number Two"
    android:textAppearance="?android:attr/textAppearanceMedium" />

<Button
    android:id="@+id	btnAdd"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/textView3"
    android:layout_alignRight="@+id/textView3"
    android:layout_below="@+id/textView3"
    android:layout_marginTop="46dp"
    android:text="Add" />

<EditText
    android:id="@+id/txtNumber2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id	btnAdd"
    android:layout_alignLeft="@+id/txtNumber1"
    android:ems="2"
    android:inputType="number" />

<TextView
    android:id="@+id/txtResult"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignRight="@+id/txtNumber2"
    android:layout_alignTop="@+id	btnAdd"
    android:textAppearance="?android:attr/textAppearanceMedium" />

</RelativeLayout>
```

MainActivity.java file

```
package com.anddoubleos.twosum;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends Activity {

    EditText firstNumber;
    EditText secondNumber;
    TextView addResult;
    Button btnAdd;

    double num1,num2,sum;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        firstNumber = (EditText)findViewById(R.id.txtNumber1);
        secondNumber = (EditText)findViewById(R.id.txtNumber2);
        addResult = (TextView)findViewById(R.id.txtResult);
        btnAdd = (Button)findViewById(R.id.btnAdd);

        btnAdd.setOnClickListener(new OnClickListener() {

            public void onClick(View v) {
                num1 = Double.parseDouble(firstNumber.getText().toString());
                num2 = Double.parseDouble(secondNumber.getText().toString());
                sum = num1 + num2;
                addResult.setText(Double.toString(sum));
            }
        });
    }
}
```

Output



Double OS

3. Date and Time Dialog box(Write a program to display date and time using dialog box)

activity_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    android:id="@+id/widget28"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:id="@+id/lblDateAndTime"
        android:layout_width="fill_parent"
        android:layout_height="67dp"
        android:background="#FFFFFF"
        android:textStyle="bold">
    </TextView>
    <Button
        android:id="@+id	btnDate"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Set the Date">
    </Button>
    <Button
        android:id="@+id	btnTime"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Set the Time" />
</LinearLayout>
```

MainActivity.java file

```

package gems.andoubleos.threedateandtime;

import android.app.Activity;
import android.os.Bundle;
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TimePicker;
import android.widget.TextView;
import java.text.DateFormat;
import java.util.Calendar;

public class MainActivity extends Activity {
    DateFormat fmtDateAndTime = DateFormat.getDateInstance();
    TextView lblDateAndTime;
    Calendar myCalendar = Calendar.getInstance();

    DatePickerDialog.OnDateSetListener d = new DatePickerDialog.OnDateSetListener()
    {
        public void onDateSet(DatePicker view, int year, int monthOfYear,
                              int dayOfMonth) {
            myCalendar.set(Calendar.YEAR, year);
            myCalendar.set(Calendar.MONTH, monthOfYear);
            myCalendar.set(Calendar.DAY_OF_MONTH, dayOfMonth);
            updateLabel();
        }
    };

    TimePickerDialog.OnTimeSetListener t = new TimePickerDialog.OnTimeSetListener()
    {
        public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
            myCalendar.set(Calendar.HOUR_OF_DAY, hourOfDay);
            myCalendar.set(Calendar.MINUTE, minute);
            updateLabel();
        }
    };

    private void updateLabel() {
        lblDateAndTime.setText(fmtDateAndTime.format(myCalendar.getTime()));
    }

    @Override
    public void onCreate(Bundle icicle) {
        super.onCreate(icicle);
        setContentView(R.layout.activity_main);
        lblDateAndTime = (TextView) findViewById(R.id.lblDateAndTime);
        Button btnDate = (Button) findViewById(R.id.btnDate);

        btnDate.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                new DatePickerDialog(MainActivity.this, d, myCalendar
                        .get(Calendar.YEAR), myCalendar.get(Calendar.MONTH),

```

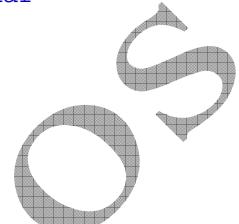
```

        myCalendar.get(Calendar.DAY_OF_MONTH)).show();
    }
});

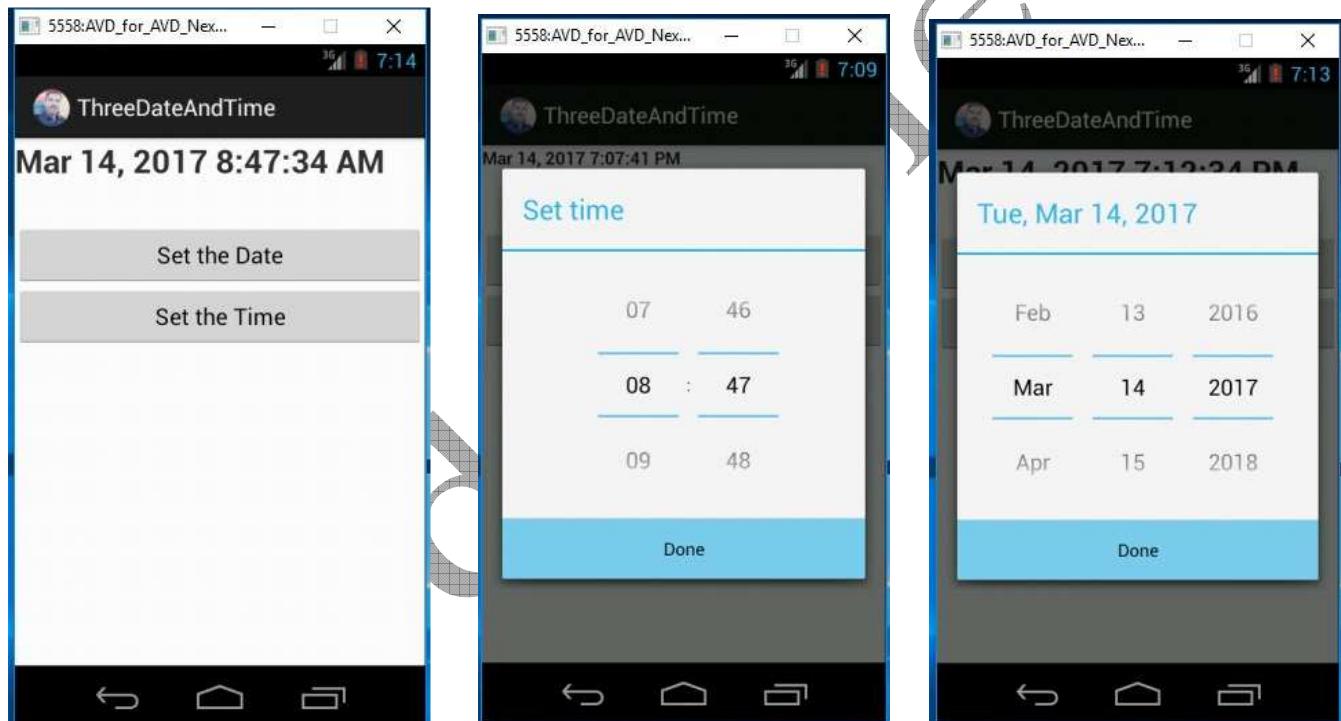
Button btnTime = (Button) findViewById(R.id.btnTime);
btnTime.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        new TimePickerDialog(MainActivity.this, t, myCalendar
            .get(Calendar.HOUR_OF_DAY), myCalendar
            .get(Calendar.MINUTE), true).show();
    }
});

updateLabel();
}
}

```



Output



4. Alert Box (Write a program to Display an alert box with OK and Cancel)

activity_main.xml file

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >

    <Button
        android:id="@+id/buttonAlert"
        android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:text="Show Alert Box" />

</LinearLayout>

```

MainActivity.java file

```

package gems.andoubleos.fouralertbox;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;

public class MainActivity extends Activity {

    final Context context = this;
    private Button button;

    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        button = (Button) findViewById(R.id.buttonAlert);

        // add button listener
        button.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {

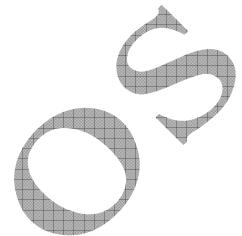
                AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(
                        context);

                // set title
                alertDialogBuilder.setTitle("Your Title");

                // set dialog message
                alertDialogBuilder
                        .setMessage("Click yes to exit!")
                        .setCancelable(false)
                        .setPositiveButton("Yes",new DialogInterface.OnClickListener()

{
                    public void onClick(DialogInterface dialog,int id) {
                        // if this button is clicked, close
                        // current activity
                        MainActivity.this.finish();
                    }
                })
                .setNegativeButton("No",new DialogInterface.OnClickListener()
{
                    public void onClick(DialogInterface dialog,int id) {
                        // if this button is clicked, just close

```



```
// the dialog box and do nothing
dialog.cancel();
}
}) ;

// create alert dialog
AlertDialog alertDialog = alertDialogBuilder.create();

// show it
alertDialog.show();
}
);
}

}
```

Output



5. Menu Program(Write a Program to create menu with three menu items)

activity_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:padding="10dip"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dip"
```

```

    android:text="Category:"
    android:layout_marginBottom="5dp" />

<Spinner
    android:id="@+id/spinner"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:prompt="@string/spinner_title" />

</LinearLayout>

```

MainActivity.java file

```

package gems.andoubleos.spinner;

import java.util.ArrayList;
import java.util.List;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;
import android.widget.AdapterView.OnItemSelectedListener;

class AndroidSpinnerExampleActivity extends Activity implements
OnItemSelectedListener{
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Spinner element
        Spinner spinner = (Spinner) findViewById(R.id.action_settings);

        // Spinner click listener
        spinner.setOnItemSelectedListener(this);

        // Spinner Drop down elements
        List<String> categories = new ArrayList<String>();
        categories.add("Automobile");
        categories.add("Business Services");
        categories.add("Computers");
        categories.add("Education");
        categories.add("Personal");
        categories.add("Travel");

        ArrayAdapter<String> dataAdapter = new ArrayAdapter<String>(this,
        android.R.layout.simple_spinner_item, categories);

        dataAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);

        spinner.setAdapter(dataAdapter);
    }
    @Override

```

```

public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
    String item = parent.getItemAtPosition(position).toString();
    Toast.makeText(parent.getContext(), "Selected: " + item,
    Toast.LENGTH_LONG).show();
}
public void onNothingSelected(AdapterView<?> arg0) {
}
}

```

Output**6. Radio Button(Write a Program to Select gender using radio button)****activity_main.xml file**

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >

    <RadioGroup
        android:id="@+id/radioSex"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" >

        <RadioButton
            android:id="@+id/radioMale"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/radio_male" />

```

```

        android:checked="true" />

    <RadioButton
        android:id="@+id/radioFemale"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/radio_female" />

</RadioGroup>

<Button
    android:id="@+id	btnDisplay"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/btn_display" />

</LinearLayout>

```

MainActivity.java file

```

package gems.andoubleos.sixradiobutton;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

public class MainActivity extends Activity {

    private RadioGroup radioSexGroup;
    private RadioButton radioSexButton;
    private Button btnDisplay;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        addListenerOnButton();
    }

    public void addListenerOnButton() {
        radioSexGroup = (RadioGroup) findViewById(R.id.radioSex);
        btnDisplay = (Button) findViewById(R.id.btnDisplay);

        btnDisplay.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View v) {
                // get selected radio button from radioGroup
                int selectedId = radioSexGroup.getCheckedRadioButtonId();

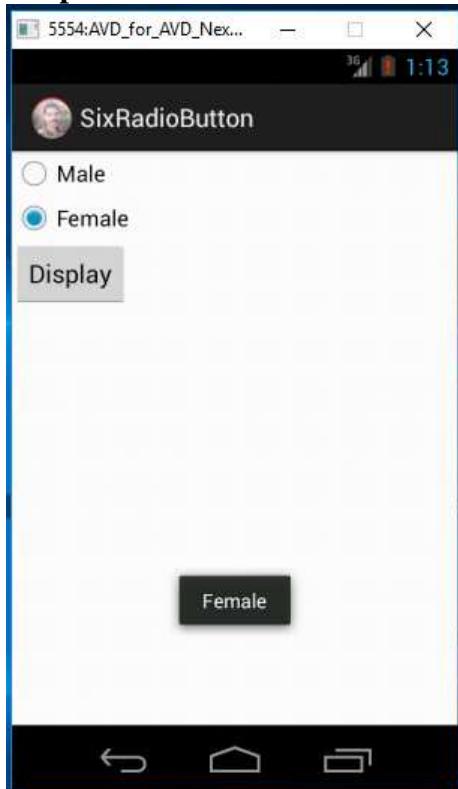
                // find the radiobutton by returned id
            }
        });
    }
}

```

```
        radioSexButton = (RadioButton) findViewById(selectedId);

        Toast.makeText(MainActivity.this,
                radioSexButton.getText(), Toast.LENGTH_SHORT).show();
    }
}
}
```

Output



7. Spinner(Write a Program To Spin the four items)

activity_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    android:id="@+id/myLinearLayout"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:id="@+id/selection"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:background="#ff0033cc"
        android:textColor="#ff0000"
        android:textSize="25dp"
        android:textStyle="bold">
    </TextView>
```

```

<Spinner
    android:id="@+id/spinner"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">
</Spinner>
</LinearLayout>

```

MainActivity.java file

```

package gems.andoubleos.sevenspinnercontrol;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.TextView;

public class MainActivity extends Activity implements
    AdapterView.OnItemSelectedListener {
    TextView selection;
    String[] items = { "an double os", "COMPUTER", "MOUSE", "KEYBORD", "MONITOR",
                      "HARD DISK", "LAPTOP", "PRINTER", "SCANNER", "SPEAKER" };

    @Override
    public void onCreate(Bundle icicle) {
        super.onCreate(icicle);
        setContentView(R.layout.activity_main);
        selection = (TextView) findViewById(R.id.selection);

        Spinner spin = (Spinner) findViewById(R.id.spinner);
        spin.setOnItemSelectedListener(this);

        ArrayAdapter aa = new
        ArrayAdapter(this, android.R.layout.simple_spinner_item, items);

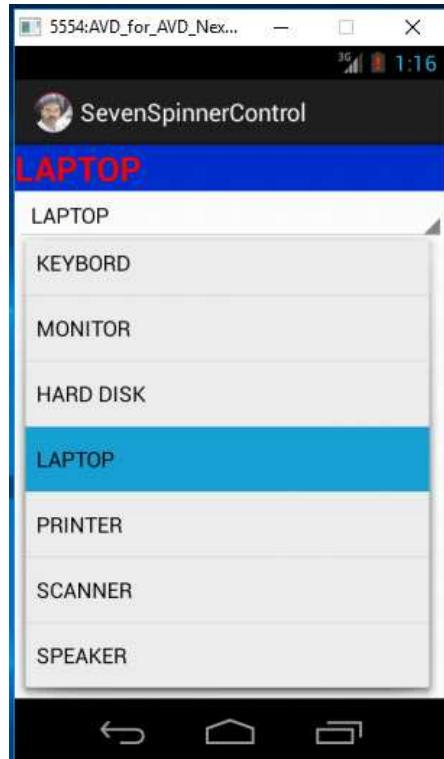
        aa.setDropDownViewResource(
            android.R.layout.simple_spinner_dropdown_item);
        spin.setAdapter(aa);
    }

    public void onItemSelected(AdapterView<?> parent, View v, int position,
        long id) {
        selection.setText(items[position]);
    }

    public void onNothingSelected(AdapterView<?> parent) {
        selection.setText("");
    }
}

```

Output



doubleos

8. Timer Program (Write a Program to display Stop watch)

activity_main.xml file

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:background="#000000"
    android:layout_height="match_parent" >

    <TextView
        android:id="@+id/timerValue"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/pauseButton"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="37dp"
        android:textSize="40sp"
        android:textColor="#ffffffff"
        android:text="@string/timerVal" />

    <Button
        android:id="@+id/startButton"
        android:layout_width="90dp"
        android:layout_height="45dp"
        android:layout_alignParentLeft="true"
        android:background="@drawable/start_button" />

    <Button
        android:id="@+id/pauseButton"
        android:layout_width="90dp"
        android:layout_height="45dp"
        android:layout_alignParentLeft="true"
        android:background="@drawable/pause_button" />

```

```

        android:layout_centerVertical="true"
        android:layout_marginLeft="38dp"
        android:text="@string/startButtonLabel" />

    <Button
        android:id="@+id/pauseButton"
        android:layout_width="90dp"
        android:layout_height="45dp"
        android:layout_alignBaseline="@+id/startButton"
        android:layout_alignBottom="@+id/startButton"
        android:layout_alignParentRight="true"
        android:layout_marginRight="38dp"
        android:text="@string/pauseButtonLabel" />

    <Button
        android:id="@+id/resetButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/startButton"
        android:layout_marginTop="28dp"
        android:layout_toLeftOf="@+id/pauseButton"
        android:text="@string/resetButtonLabel" />

</RelativeLayout>

```

MainActivity.java file

```

package gems.andoubleos.eightstopwatch;

import android.app.Activity;
import android.os.Bundle;
import android.os.Handler;
import android.os.SystemClock;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class MainActivity extends Activity {

    private Button startButton;
    private Button pauseButton;
    private Button resetButton;

    private TextView timerValue;

    private long startTime = 0L;

    private Handler customHandler = new Handler();

    long timeInMilliseconds = 0L;
    long timeSwapBuff = 0L;
    long updatedTime = 0L;

    @Override
    public void onCreate(Bundle savedInstanceState) {

```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

timerValue = (TextView) findViewById(R.id.timerValue);

startButton = (Button) findViewById(R.id.startButton);
startButton.setOnClickListener(new View.OnClickListener() {

    public void onClick(View view) {
        startTime = SystemClock.uptimeMillis();
        customHandler.postDelayed(updateTimerThread, 0);
    }
});
resetButton = (Button) findViewById(R.id.resetButton);
resetButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        /* MillisecondTime = 0L ;
        StartTime = 0L ;
        TimeBuff = 0L ;
        UpdateTime = 0L ;
        Seconds = 0 ;
        Minutes = 0 ;
        MilliSeconds = 0 ; */

        timerValue.setText("00:00:00");

        // adapter.notifyDataSetChanged();
    }
});
pauseButton = (Button) findViewById(R.id.pauseButton);
pauseButton.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        timeSwapBuff += timeInMilliseconds;
        customHandler.removeCallbacks(updateTimerThread);
    }
});
private Runnable updateTimerThread = new Runnable() {

    public void run() {

        timeInMilliseconds = SystemClock.uptimeMillis() - startTime;

        updatedTime = timeSwapBuff + timeInMilliseconds;

        int secs = (int) (updatedTime / 1000);
        int mins = secs / 60;
    }
}

```

```
        secs = secs % 60;
        int milliseconds = (int) (updatedTime % 1000);
        timerValue.setText(" " + mins + ":"
            + String.format("%02d", secs) + ":"
            + String.format("%03d", milliseconds));
        customHandler.postDelayed(this, 0);
    }
}
}
```

Output



9. Check box(Write a Program to check the items listed)

activity_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >

    <CheckBox
        android:id="@+id/android"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/chk_first" />

    <CheckBox
        android:id="@+id/java"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />
```

```

        android:layout_height="wrap_content"
        android:text="@string/chk_second"
        android:checked="true" />

    <CheckBox
        android:id="@+id/opencv"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/chk_third" />

    <CheckBox
        android:id="@+id/symbian"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/chk_fourth" />

    <Button
        android:id="@+id/clickhere"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/btn_click" />

</LinearLayout>

```

MainActivity.java file

```

package gems.andoubleos.ninecheckbox;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;

public class MainActivity extends Activity {

    private CheckBox android, java, opencv, symbian;
    private Button Clickhere;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        android = (CheckBox) findViewById(R.id.android);
        java = (CheckBox) findViewById(R.id.java);
        opencv = (CheckBox) findViewById(R.id.opencv);
        symbian = (CheckBox) findViewById(R.id.symbian);
        Clickhere = (Button) findViewById(R.id.clickhere);

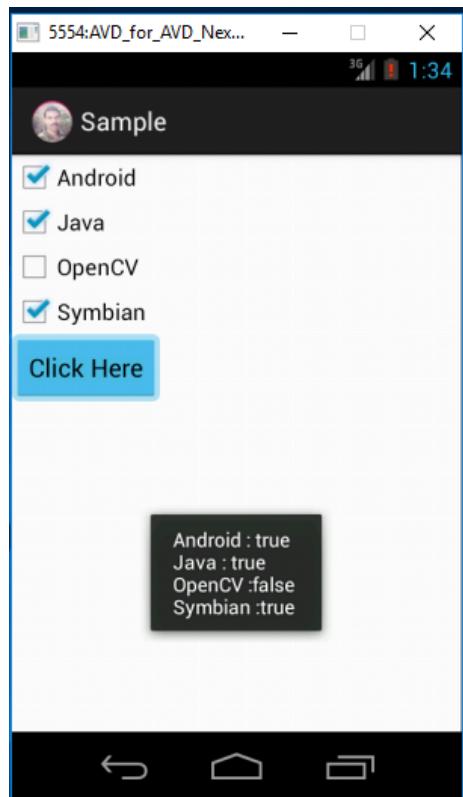
        Clickhere.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View v) {

```

```
// Create string buffer to  
  
StringBuffer OUTPUT = new StringBuffer();  
OUTPUT.append("Android : ")  
    .append(android.isChecked());  
  
OUTPUT.append("\nJava : ").append(  
    java.isChecked());  
  
OUTPUT.append("\nOpenCV : ").append(  
    opencv.isChecked());  
  
OUTPUT.append("\nSymbian : ").append(  
    symbian.isChecked());  
  
Toast.makeText(MainActivity.this, OUTPUT.toString(),  
    Toast.LENGTH_LONG).show();  
}  
});  
}  
}
```

Output



10. Date Time Picker(Write a Program to Select current system time using date time picker)

activity_main.xml file

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    tools:context=".MainActivity">

    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:id="@+id/in_date"
        android:layout_marginTop="82dp"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@stringsel_date"
        android:id="@+id	btn_date"
        android:layout_alignBottom="@+id/in_date"
        android:layout_toRightOf="@+id/in_date"
        android:layout_toEndOf="@+id/in_date" />

    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:id="@+id/in_time"
        android:layout_below="@+id/in_date"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@stringsel_time"
        android:id="@+id	btn_time"
        android:layout_below="@+id	btn_date"
        android:layout_alignLeft="@+id	btn_date"
        android:layout_alignStart="@+id	btn_date" />

</RelativeLayout>

```

MainActivity.java file

```

package gems.andoubleos.tencurrentsystemtime;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.app.Activity;
import android.os.Bundle;

```



```

import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;

import java.util.Calendar;

public class MainActivity extends Activity implements
    View.OnClickListener {

    Button btnDatePicker, btnTimePicker;
    EditText txtDate, txtTime;
    private int mYear, mMonth, mDay, mHour, mMinute;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btnDatePicker=(Button)findViewById(R.id.btn_date);
        btnTimePicker=(Button)findViewById(R.id.btn_time);
        txtDate=(EditText)findViewById(R.id.in_date);
        txtTime=(EditText)findViewById(R.id.in_time);

        btnDatePicker.setOnClickListener(this);
        btnTimePicker.setOnClickListener(this);
    }

    @Override
    public void onClick(View v) {
        if (v == btnDatePicker) {

            // Get Current Date
            final Calendar c = Calendar.getInstance();
            mYear = c.get(Calendar.YEAR);
            mMonth = c.get(Calendar.MONTH);
            mDay = c.get(Calendar.DAY_OF_MONTH);

            DatePickerDialog datePickerDialog = new DatePickerDialog(this,
                new DatePickerDialog.OnDateSetListener() {

                    @Override
                    public void onDateSet(DatePicker view, int year,
                        int monthOfYear, int dayOfMonth) {

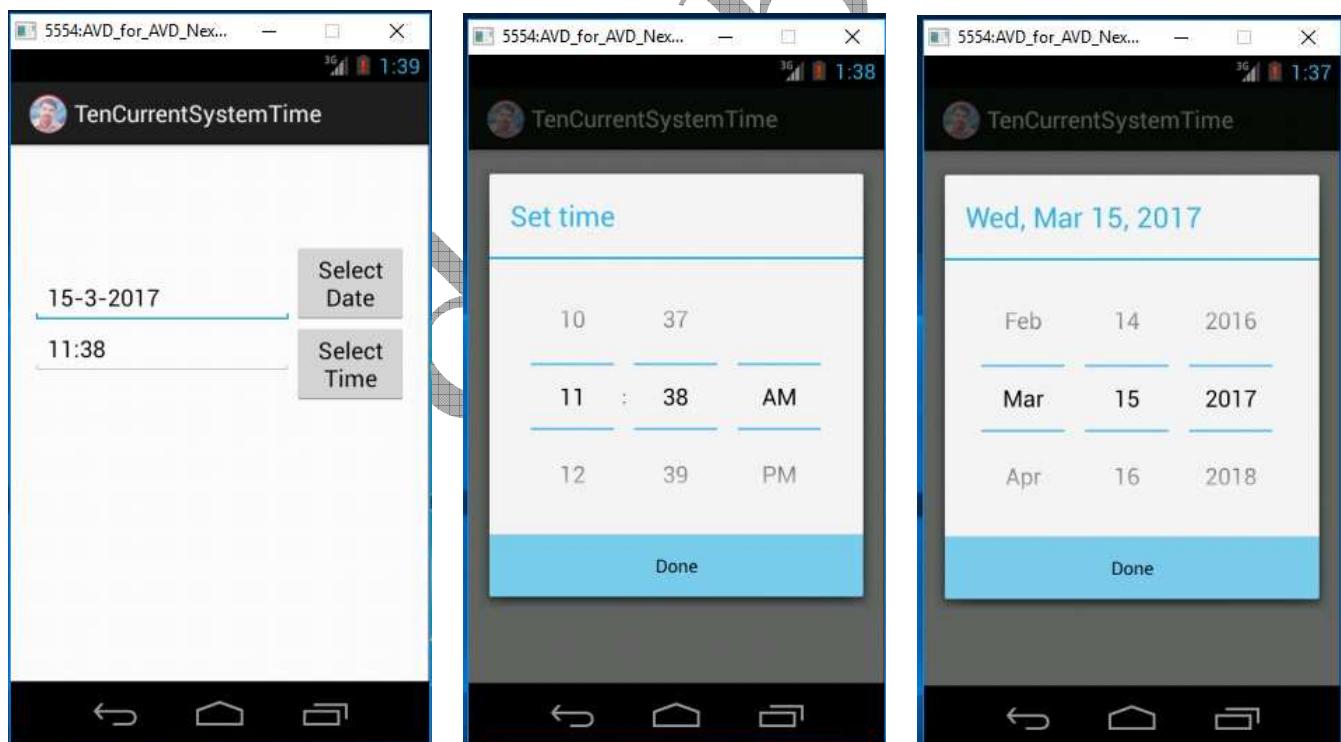
                        txtDate.setText(dayOfMonth + " - " + (monthOfYear + 1) + " - "
                            + year);
                    }
                }, mYear, mMonth, mDay);
            datePickerDialog.show();
        }
        if (v == btnTimePicker) {
    
```

```
// Get Current Time
final Calendar c = Calendar.getInstance();
mHour = c.get(Calendar.HOUR_OF_DAY);
mMinute = c.get(Calendar.MINUTE);

// Launch Time Picker Dialog
TimePickerDialog timePickerDialog = new TimePickerDialog(this,
    new TimePickerDialog.OnTimeSetListener() {

        @Override
        public void onTimeSet(TimePicker view, int hourOfDay,
            int minute) {
            txtTime.setText(hourOfDay + ":" + minute);
        }
    }, mHour, mMinute, false);
timePickerDialog.show();
}
}
```

Output



11. Grid View (Write a Program to display contacts using Grid View Control)

activity_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<GridView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/gridview"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:columnWidth="90dp"
    android:	numColumns="auto_fit"
    android:verticalSpacing="10dp"
    android:horizontalSpacing="10dp"
    android:stretchMode="columnWidth"
    android:gravity="center"
/>
```

MainActivity.java file

```
package gems.andoubleos.hellogridview;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.widget.GridView;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        GridView gridview = (GridView) findViewById(R.id.gridview);
        gridview.setAdapter(new ImageAdapter(this));
    }
}
```

ImageAdapter.java

```
package gems.andoubleos.hellogridview;

import android.content.Context;

import android.view.View;
import android.view.ViewGroup;

import android.widget.BaseAdapter;
import android.widget.GridView;
import android.widget.ImageView;

public class ImageAdapter extends BaseAdapter {
    private Context mContext;

    // Constructor
    public ImageAdapter(Context c) {
        mContext = c;
    }

    ...
```

```

public int getCount() {
    return mThumbIds.length;
}

public Object getItem(int position) {
    return null;
}

public long getItemId(int position) {
    return 0;
}

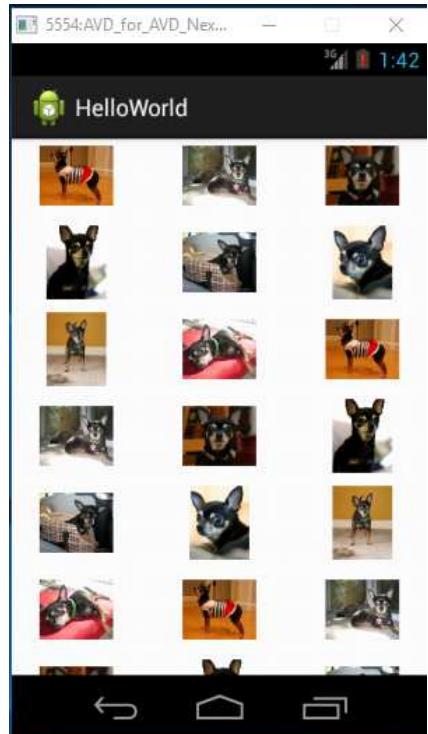
// create a new ImageView for each item referenced by the Adapter
public View getView(int position, View convertView, ViewGroup parent) {
    ImageView imageView;

    if (convertView == null) {
        imageView = new ImageView(mContext);
        imageView.setLayoutParams(new GridView.LayoutParams(85, 85));
        imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
        imageView.setPadding(8, 8, 8, 8);
    }
    else
    {
        imageView = (ImageView) convertView;
    }
    imageView.setImageResource(mThumbIds[position]);
    return imageView;
}

// Keep all Images in array
public Integer[] mThumbIds = {
    R.drawable.sample_2, R.drawable.sample_3,
    R.drawable.sample_4, R.drawable.sample_5,
    R.drawable.sample_6, R.drawable.sample_7,
    R.drawable.sample_0, R.drawable.sample_1,
    R.drawable.sample_2, R.drawable.sample_3,
    R.drawable.sample_4, R.drawable.sample_5,
    R.drawable.sample_6, R.drawable.sample_7,
    R.drawable.sample_0, R.drawable.sample_1,
    R.drawable.sample_2, R.drawable.sample_3,
    R.drawable.sample_4, R.drawable.sample_5,
    R.drawable.sample_6, R.drawable.sample_7
};
}

```

Output



OS

double

12. Image View (Write a Program to Display images from local drive of the computer)

activity_main.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/android" />

    <Button
        android:id="@+id	btnChangeImage"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Change Image" />

</LinearLayout>
```

MainActivity.java file

```
package gems.andoubleos.twelvedisplayimage;

import android.app.Activity;
import android.os.Bundle;
import android.widget.Button;
import android.widget.ImageView;
import android.view.View;
import android.view.View.OnClickListener;

public class MainActivity extends Activity {

    Button button;
    ImageView image;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        addListenerOnButton();
    }

    public void addListenerOnButton() {

        image = (ImageView) findViewById(R.id.imageView1);

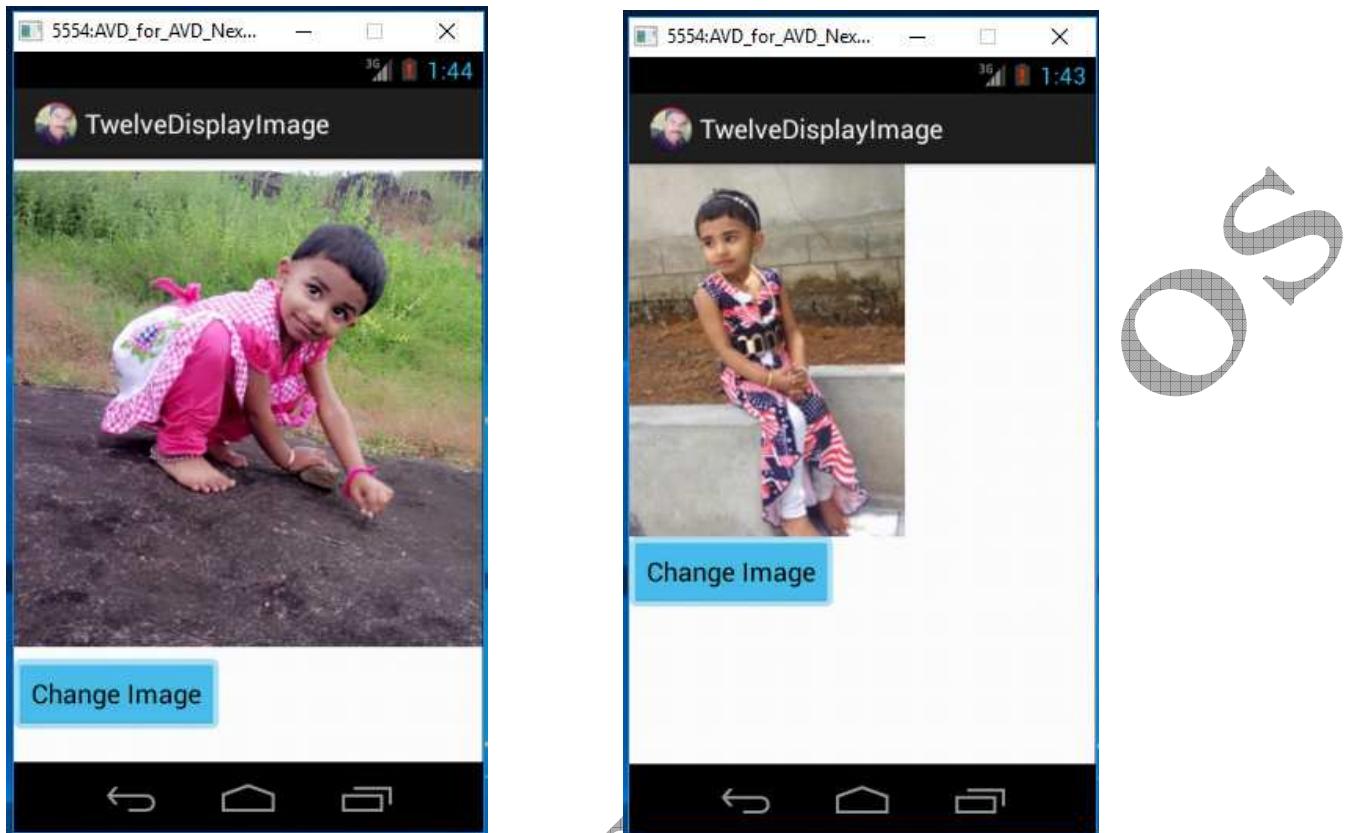
        button = (Button) findViewById(R.id.btnChangeImage);
        button.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {
                image.setImageResource(R.drawable.android3d);
            }
        });
    }
}
```

OS

am

Output



13. List View(Write a Program to Display the items in a list)

MainActivity.java file

```
package gems.andoubleos.thirteendisplayitemslist;

import android.app.ListActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.AdapterView.OnItemClickListener;

public class MainActivity extends ListActivity {

    static final String[] FRUITS = new String[] { "Apple", "Avocado", "Banana",
        "Blueberry", "Coconut", "Durian", "Guava", "Kiwifruit",
        "Jackfruit", "Mango", "Olive", "Pear", "Sugar-apple" };

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

        setListAdapter(new ArrayAdapter<String>(this,
R.layout.activity_main,FRUITS));

        ListView listView = getListView();
        listView.setTextFilterEnabled(true);

        listView.setOnItemClickListener(new OnItemClickListener() {
            public void onItemClick(AdapterView<?> parent, View view,
                int position, long id) {

                Toast.makeText(getApplicationContext(),
                    ((TextView) view).getText(), Toast.LENGTH_SHORT).show();
            }
        });
    }
}

```

activity_main.xml file

```

<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:padding="10dp"
    android:textSize="20sp" >
</TextView>

```

Output

14. Fetch data from an EditText and display it in a TextView

activity_main.xml file

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_alignParentTop="true"
        android:layout_marginTop="48dp"
        android:ems="10"
        android:inputType="textPersonName" >
        <requestFocus />
    </EditText>

    <EditText
        android:id="@+id/editText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText1"
        android:layout_below="@+id/editText1"
        android:layout_marginTop="28dp"
        android:ems="10"
        android:inputType="textPersonName" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText2"
        android:layout_below="@+id/editText2"
        android:layout_marginTop="50dp"
        android:text="Button" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentRight="true"
        android:layout_below="@+id/button1"
        android:layout_marginRight="184dp"
        android:layout_marginTop="136dp"
        android:text="Display Here"
        android:textAppearance="?android:attr/textAppearanceLarge" />

```

```
</RelativeLayout>
```

MainActivity.java file

```
package com.andoubleos.editanddisplay;

import android.os.Bundle;
import android.app.Activity;
import android.text.method.ScrollingMovementMethod;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends Activity {

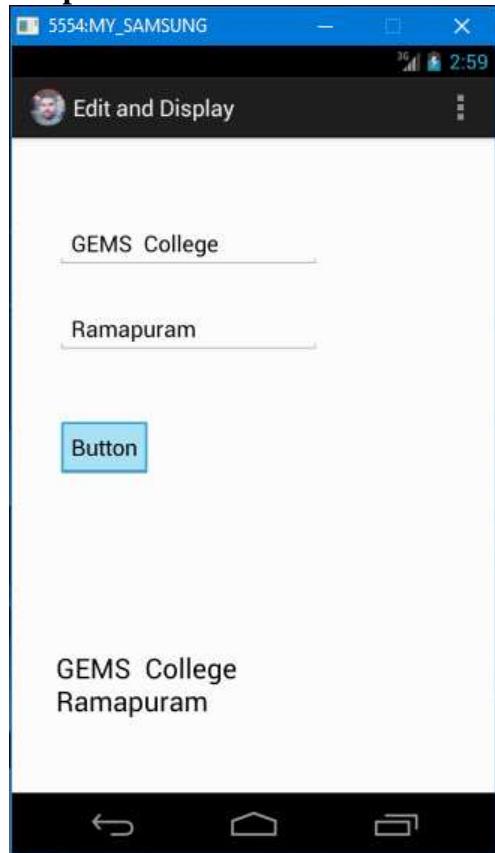
    Button butn;
    EditText text1;
    EditText text2;
    TextView txtview;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        butn=(Button)findViewById(R.id.button1);
        txtview=(TextView)findViewById(R.id.textView1);
        txtview.setMovementMethod(new ScrollingMovementMethod());

        butn.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                text1= (EditText)findViewById(R.id.editText1);
                text2= (EditText)findViewById(R.id.editText2);

                txtview.setText(text1.getText().toString()+"\n"+text2.getText().toString());
            }
        });
    }
}
```

Output

doubleos

double

15. Write a program to display multiplication table of a given number**activity_main.xml file**

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/editText1"
        android:layout_alignParentRight="true"
        android:layout_marginRight="78dp"
        android:text="Button" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

        android:layout_alignLeft="@+id/editText1"
        android:layout_alignParentBottom="true"
        android:layout_below="@+id/editText1"
        android:layout_marginTop="41dp"
        android:text=" "
        android:textAppearance="?android:attr/textAppearanceLarge" />

<EditText
    android:id="@+id/editText1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_marginLeft="57dp"
    android:ems="10" />

</RelativeLayout>

```

MainActivity.java file

```

package com.andoubleos.multable;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends Activity {

    EditText editText;
    Button button;
    TextView result;
    int ans=0;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        editText=(EditText)findViewById(R.id.editText1);
        button=(Button)findViewById(R.id.button1);
        result=(TextView)findViewById(R.id.textView1);

        button.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                StringBuffer buffer = new StringBuffer();
                String fs=editText.getText().toString();
                int n = Integer.parseInt(fs);
                for (int i = 1; i <= 15; i++) {
                    ans = (i * n);
                    buffer.append(i + " X " + n + " = " + ans + "\n");
                }
            }
        });
    }
}

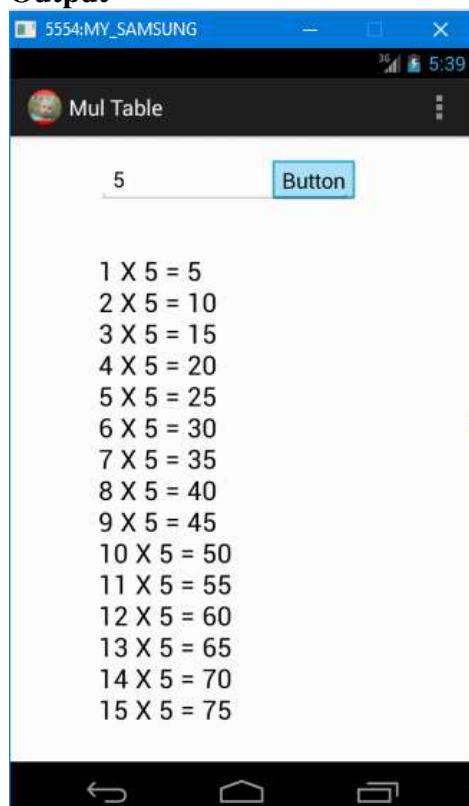
```

```

        result.setText(buffer);
    }
}
} );
}

}
}

```

Output

Double
OS

16. Write a program to Get IP Address of the device**activity_main.xml file**

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"

```

```

        android:layout_marginBottom="143dp"
        android:layout_marginLeft="174dp"
        android:text="Large Text"
        android:textAppearance="?android:attr/textAppearanceLarge" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_alignParentTop="true"
        android:layout_marginTop="124dp"
        android:text="Get IP Address" />

</RelativeLayout>

```

MainActivity.java file

```

package com.andoubleos.getip;
import android.net.wifi.WifiManager;
import android.os.Bundle;
import android.app.Activity;
import android.text.format.Formatter;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.TextView;

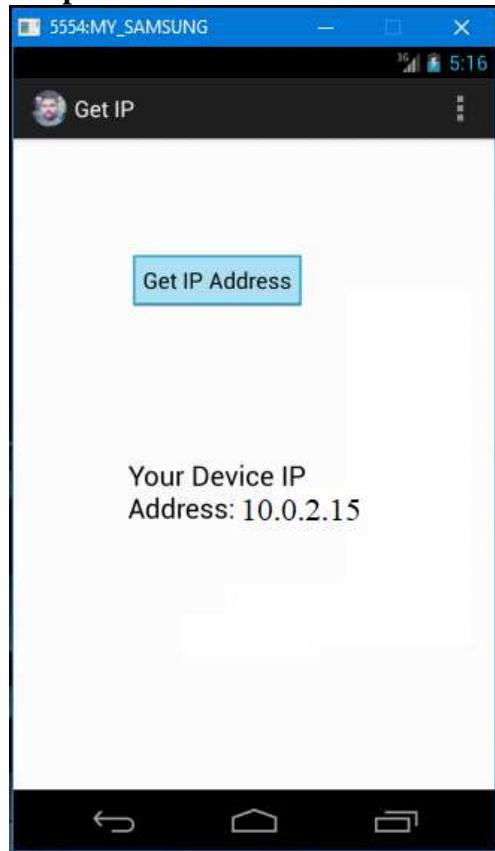
public class MainActivity extends Activity {

    Button buttn;
    TextView txtview;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        buttn=(Button)findViewById(R.id.button1);
        buttn.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                txtview = (TextView) findViewById(R.id.textView1);
                WifiManager wifiManager =
(WifiManager) getSystemService(WIFI_SERVICE);
                String ipAddress=
Formatter.formatIpAddress(wifiManager.getConnectionInfo().getIpAddress());
                txtview.setText("Your Device IP Address: " + ipAddress);
            }
        });
    }
}

```

Output

OS

17. Write a program to Change the Background colour of the Activity

activity_main.xml file

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/r1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="88dp"
        android:layout_marginTop="242dp"
        android:text="Apply Background Colour" />

</RelativeLayout>
```

MainActivity.java file

```

package com.andoubleos.bgcolor;
import android.os.Bundle;
import android.app.Activity;
import android.graphics.Color;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.RelativeLayout;

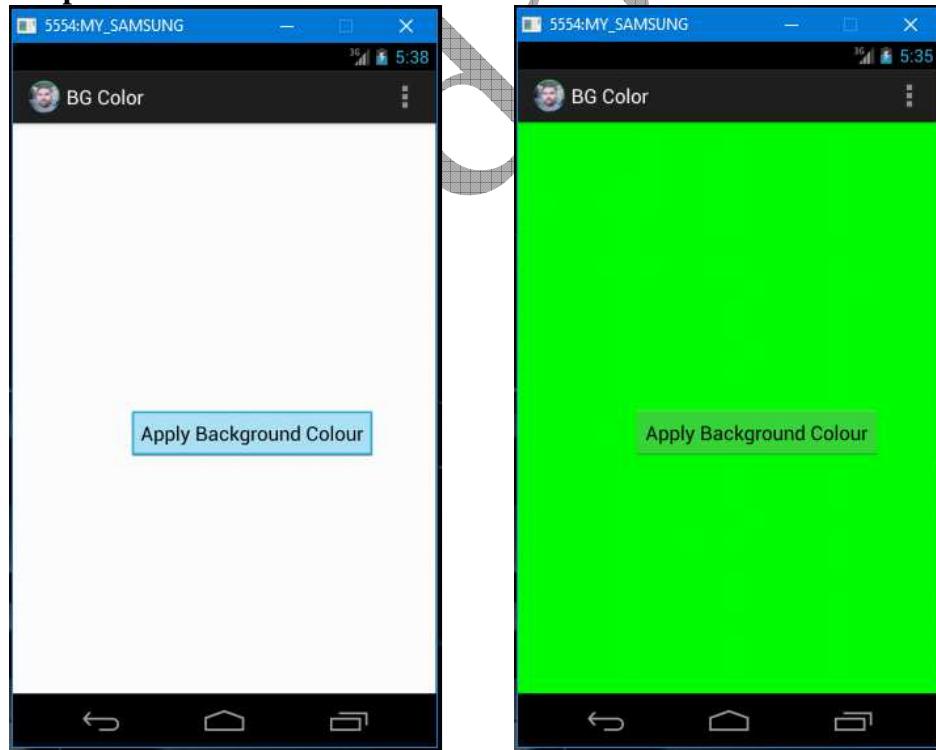
public class MainActivity extends Activity {
    Button btn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        final RelativeLayout rl = (RelativeLayout) findViewById(R.id.rl);
        btn= (Button) findViewById(R.id.button1);
        btn.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View arg0) {
                rl.setBackgroundColor(Color.YELLOW);
            }
        });
    }
}

```

Output

18. Write a program to Change the Background image

activity_main.xml file

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"

    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"
        android:layout_marginBottom="100dp"
        android:layout_marginLeft="58dp"
        android:text="Image 1" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/button1"
        android:layout_centerHorizontal="true"
        android:text="Image 2" />

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button2"
        android:layout_alignRight="@+id/button2"
        android:minHeight="300dp"
        android:minWidth="300dp"
        android:src="@drawable/bg3" />

</RelativeLayout>

```

MainActivity.java file

```

package com.andoubleos.bgimage;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;

public class MainActivity extends Activity implements View.OnClickListener{

```

OS

```

ImageView v1;
Button btn1;
Button btn2;

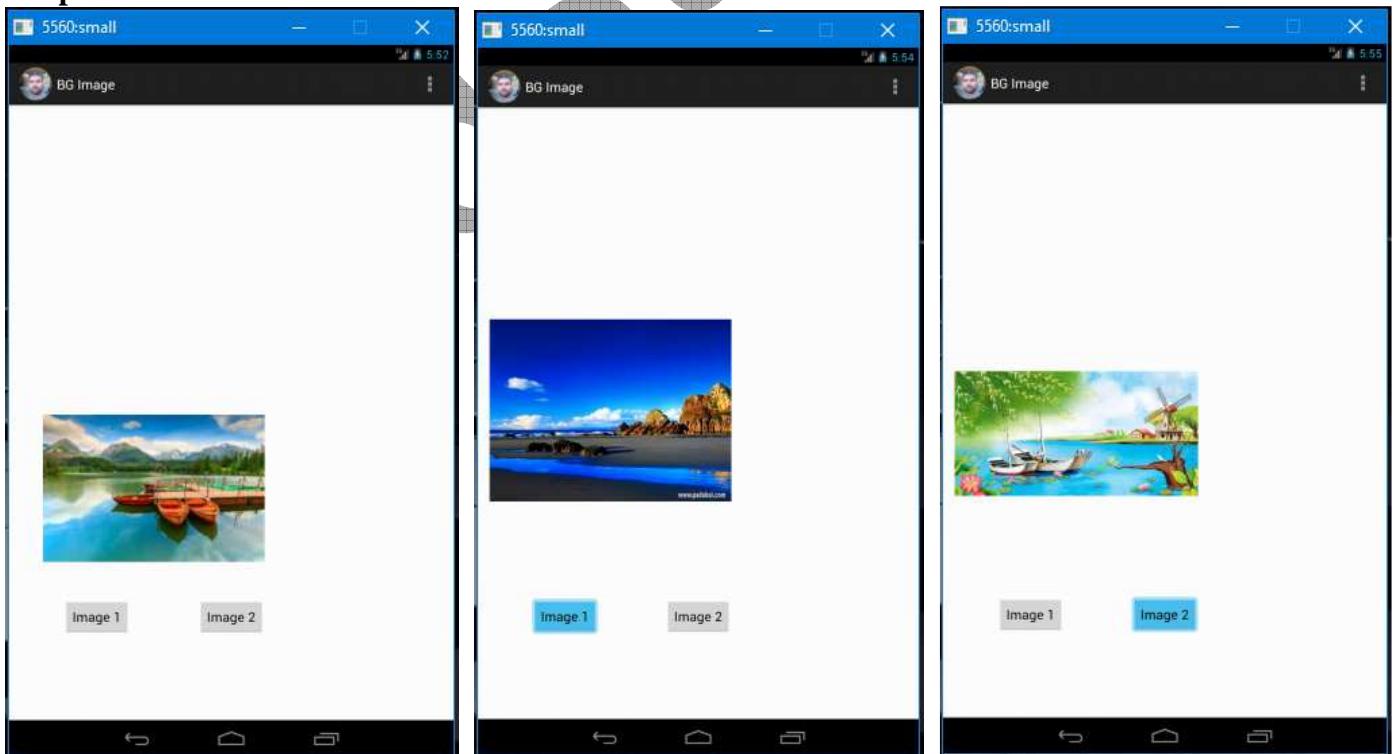
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    btn1=(Button)findViewById(R.id.button1);
    btn2=(Button)findViewById(R.id.button2);
    v1=(ImageView)findViewById(R.id.imageView1);
    btn1.setOnClickListener(this);
    btn2.setOnClickListener(this);
}

@Override
public void onClick(View v) {
    // TODO Auto-generated method stub
    switch(v.getId()){
        case R.id.button1:
            v1.setImageResource(R.drawable.bg1);
            break;
        case R.id.button2:
            v1.setImageResource(R.drawable.bg2);
            break;
    }
}
}

```

Output



19. Program using array adapter

activity_main.xml file

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <ListView
        android:id="@+id/listView1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1" >
    </ListView>

</LinearLayout>
```

MainActivity.java file

```
package com.andoubleos.arryadapter;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.TextView;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends Activity {

    ListView lst;
    String[] months =
    {"Janaury", "Feb", "March", "April", "May", "June", "July", "August", "September", "Octomber", "November", "December"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        lst= (ListView) findViewById(R.id.listView1);
        ArrayAdapter<String> arrayadapter=new
        ArrayAdapter<String>(this,android.R.layout.simple_list_item_1,months);
        lst.setAdapter(arrayadapter);
        lst.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
```

```

public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
    TextView tv= (TextView) view;
    Toast.makeText(MainActivity.this, tv.getText() + "
"+position,Toast.LENGTH_LONG).show();
}
);
}
}

```

Output

OS

double

20. Program to start another activity from your own activity using intent**activity_main.xml file**

```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="236dp"/>

```

```

    android:text="Button" />

<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:text="You are in First Activity"
    android:textAppearance="?android:attr/textAppearanceLarge" />

</RelativeLayout>

```

Nextactivitylayout.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="You are in Second Activity"
        android:textAppearance="?android:attr/textAppearanceLarge" />

</LinearLayout>

```

MainActivity.java file

```

package com.example.activityintent;

import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.Button;

public class MainActivity extends Activity {

    Button jumpbtn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        jumpbtn = (Button) findViewById(R.id.button1);
        jumpbtn.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                // TODO Auto-generated method stub
                Intent i = new Intent(MainActivity.this, nextactivity.class);
                startActivity(i);
            }
        });
    }
}

```

```

        } );
    }
}

```

Nextactivity.java

```

package com.example.activityintent;

import android.app.Activity;
import android.os.Bundle;

public class nextactivity extends Activity{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub

        setContentView(R.layout.nextactivitylayout);

        super.onCreate(savedInstanceState);
    }
}

```

AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.activityintent"
    android:versionCode="1"
    android:versionName="1.0" >

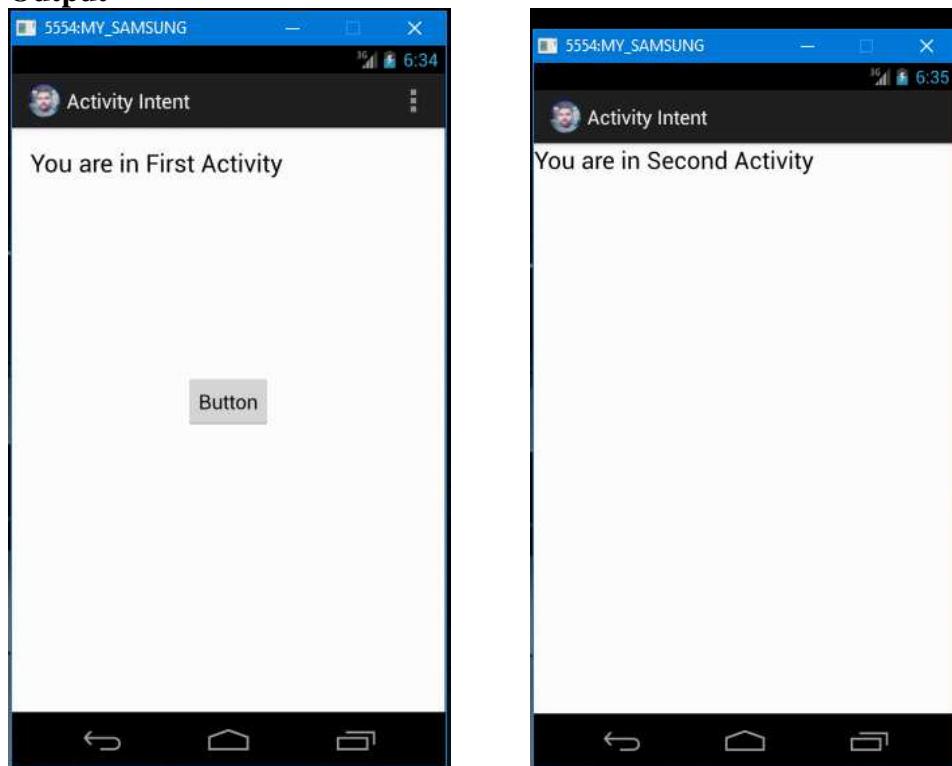
    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="17" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name="com.example.activityintent.MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name="com.example.activityintent.nextactivity"
            android:label="@string/app_name" >
        </activity>
    </application>

</manifest>

```

Output



OS

cloud

am