ANDROID PROGRAMS

YUVAKSHETRA INSTITUTE OF MANAGEMENT STUDIES

2020



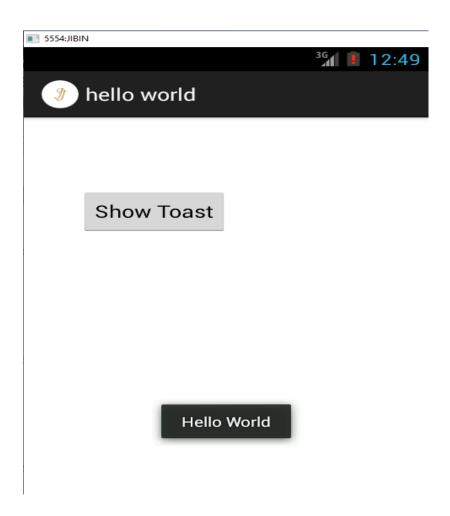
1. Hello World Program (Write a program to Toast Hello World)

Activity_Main.Xml File

```
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 MainActivity extends Activity {
    @ Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button button = (Button) findViewById(R.id.buttonToast);
```

```
button.setOnClickListener(new OnClickListener() {
public void onClick(View arg0) {
  Toast.makeText(getApplicationContext(),
  "Hello World", Toast.LENGTH_LONG).show();
}
});
}
```



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

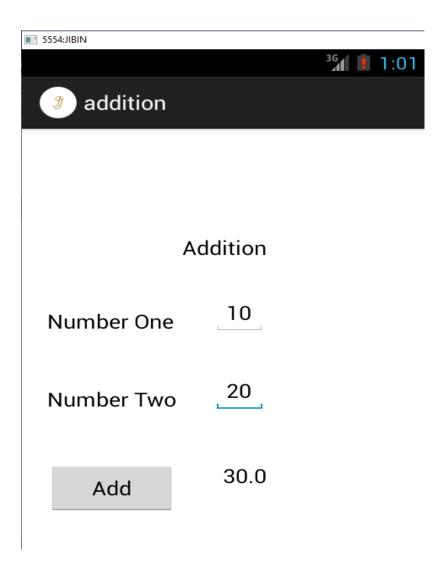
Activity_Main.Xml File

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

```
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;
  @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);
    Button btnAdd = (Button)findViewById(R.id.btnAdd);
         btnAdd.setOnClickListener(new OnClickListener() {
       public void onClick(View v) {
              double num1 = Double.parseDouble(firstNumber.getText().toString());
              double num2 = Double.parseDouble(secondNumber.getText().toString());
              double sum = num1 + num2;
              addResult.setText(Double.toString(sum));
       }
       });
  }
```



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

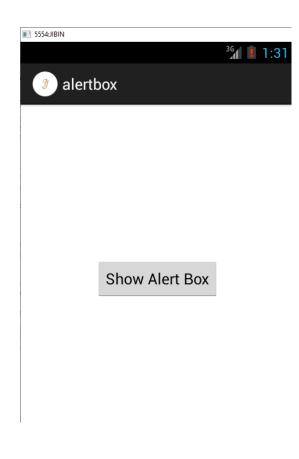
Activity_Main.Xml File

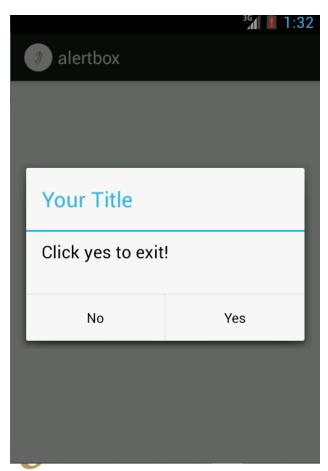
</RelativeLayout>

```
import android.app.Activity;
import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
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;
    @ Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}
```

```
setContentView(R.layout.activity_main);
    button = (Button) findViewById(R.id.buttonAlert);
    button.setOnClickListener(new OnClickListener() {
   @Override
   public void onClick(View arg0) {
   AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(context);
      alertDialogBuilder.setTitle("Your Title");
   alertDialogBuilder.setMessage("Click yes to
exit!").setCancelable(false).setPositiveButton("Yes",new DialogInterface.OnClickListener()
   {
   public void onClick(DialogInterface dialog,int id) {
      MainActivity.this.finish();
   }
   }) .setNegativeButton("No",new DialogInterface.OnClickListener()
   public void onClick(DialogInterface dialog,int id)
{
        dialog.cancel();
        }
        });
        AlertDialog alertDialog = alertDialogBuilder.create();
        alertDialog.show();
        }
        });
       }
```





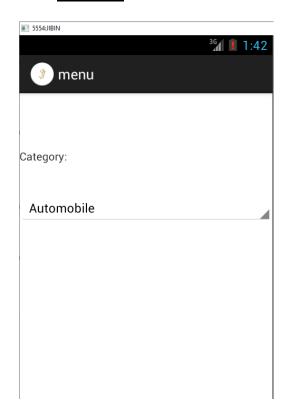
4. Menu Program(Write a Program to create menu with three menu items)

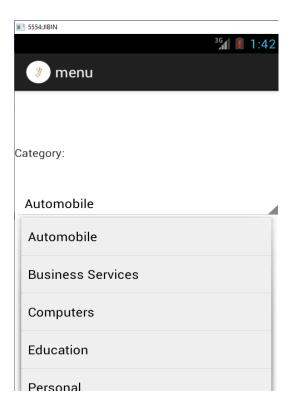
Activity_Main.Xml File

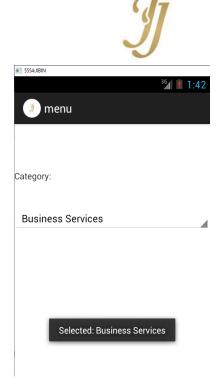
```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_marginTop="70dp"
    android:text="Category:"/>
  <Spinner
    android:id="@+id/spinner"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout below="@+id/textView1"
    android:layout_marginTop="38dp"
     />
</RelativeLayout>
```

```
import java.util.ArrayList;
import java.util.List;
import android.app.Activity;
import android.os.Bundle;
import android.view.Menu;
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;
public class MainActivity extends Activity implements
OnItemSelectedListener{
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Spinner spinner = (Spinner) findViewById(R.id.spinner);
  // 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);
  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) {
}
```







5. Radio Button(Write a Program to Select gender using radio button)

Activity_Main.Xml File

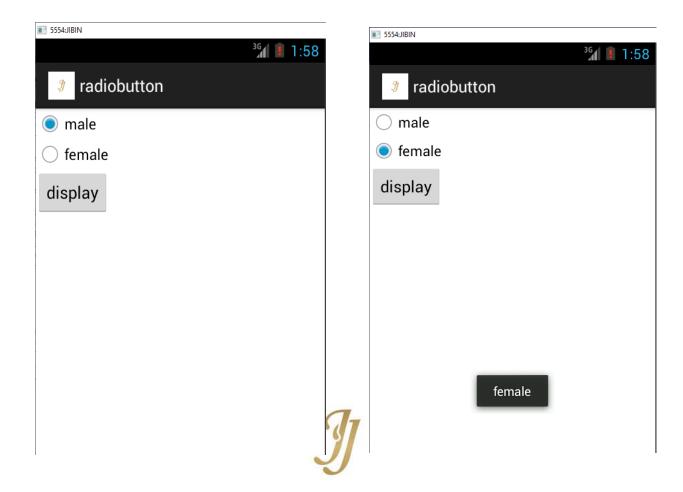
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
android:layout_width="fill_parent"
android:layout_height="fill_parent"
android:orientation="vertical">
<RadioGroup
android:id="@+id/radioSex"
android:layout_width="wrap_content"
android:layout_height="wrap_content">
< Radio Button
android:id="@+id/radioMale"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="male"
android:checked="true"/>
<RadioButton
android:id="@+id/radioFemale"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="female"/>
</RadioGroup>
<Button
  android:id="@+id/btnDisplay"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="display" />
</LinearLayout>
```

MainActivity.java file

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



```
import android.view.Menu;
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
  protected 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) {
    int selectedId = radioSexGroup.getCheckedRadioButtonId();
  radioSexButton = (RadioButton) findViewById(selectedId);
  Toast.makeText(MainActivity.this,
  radioSexButton.getText(), Toast.LENGTH_SHORT).show();
  }
  });
```



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

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"
    tools:context=".MainActivity" >

<Spinner
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/selection"
    android:layout_marginTop="71dp"/>
```

<TextView

```
android:id="@+id/selection"
android:layout_width="fill_parent"
android:layout_height="wrap_content"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginTop="41dp"
android:background="#ff0033cc"
android:textColor="#ff0000"
android:textSize="25dp"
android:textStyle="bold"/>
```

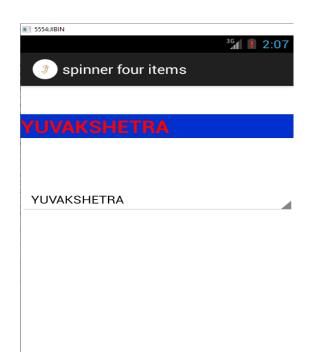


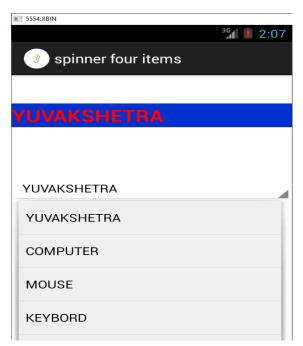
</RelativeLayout>

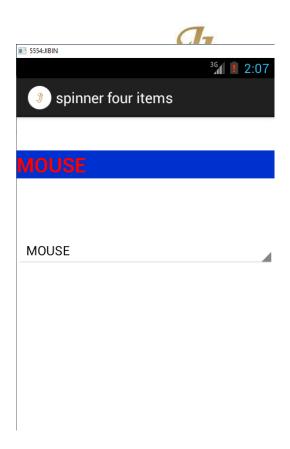
MainActivity.java file

import android.app.Activity;
import android.os.Bundle;
import android.view.Menu;
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 = { "YUVAKSHETRA", "COMPUTER", "MOUSE", "KEYBORD",
"MONITOR", "HARD DISK", "LAPTOP", "PRINTER", "SCANNER", "SPEAKER" };
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    selection = (TextView) findViewById(R.id.selection);
    Spinner spin = (Spinner) findViewById(R.id.spinner);
    spin.setOnItemSelectedListener(this);
    <u>ArrayAdapter</u> aa = <u>new ArrayAdapter(this,android.R.layout.simple_spinner_item,items);</u>
    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("");
```







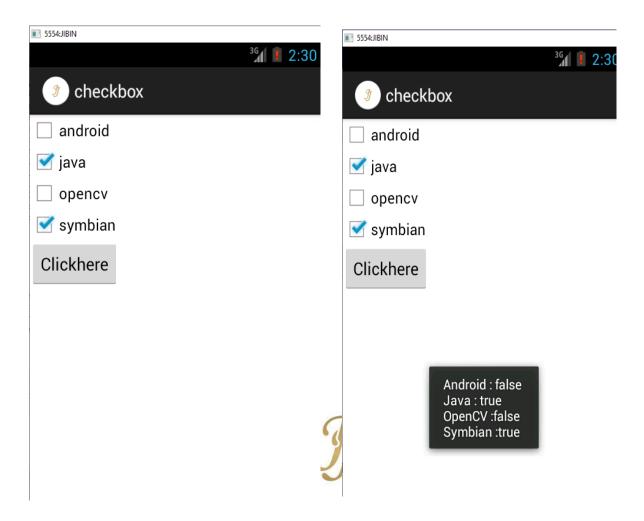
7. Check box(Write a Program to check the items listed)

Activity_Main.Xml File

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
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="android"/>
<CheckBox
android:id="@+id/java"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="java"
android:checked="true"/>
<CheckBox
android:id="@+id/opency"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="opency"/>
<CheckBox
android:id="@+id/symbian"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="symbian"/>
<Button
android:id="@+id/Clickhere"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Clickhere"/>
   </LinearLayout>
```



```
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;
import android.view.Menu;
public class MainActivity extends Activity {
      private CheckBox android, java, opency, symbian;
      private Button Clickhere;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    android = (CheckBox) findViewById(R.id.android);
    java = (CheckBox) findViewById(R.id.java);
    opency = (CheckBox) findViewById(R.id.opency);
    symbian = (CheckBox) findViewById(R.id.symbian);
    Clickhere = (Button) findViewById(R.id.Clickhere);
    Clickhere.setOnClickListener(new OnClickListener() {
    @Override
    public void onClick(View v) {
      StringBuffer OUTPUT = new StringBuffer();
      OUTPUT.append("Android: ").append(android.isChecked());
      OUTPUT.append("\nJava:").append(java.isChecked());
      OUTPUT.append("\nOpenCV:").append(opency.isChecked());
      OUTPUT.append("\nSymbian:").append(symbian.isChecked());
      Toast.makeText(MainActivity.this, OUTPUT.toString(),
      Toast.LENGTH_LONG).show();
       }
             });
           }
```

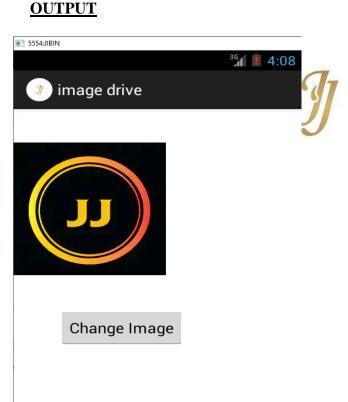


8. Image View (Write a Program to Display images from local drive of the computer)

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"
  tools:context=".MainActivity">
<ImageView
  android:id="@+id/imageView1"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_below="@+id/imageView2"
  android:layout_marginTop="42dp"
  android:layout_toRightOf="@+id/imageView2"
  android:src="@drawable/icon"/>
<Button
  android:id="@+id/btnChangeImage"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_alignParentLeft="true"
  android:layout_below="@+id/imageView1"
  android:layout_marginLeft="50dp"
  android:layout_marginTop="42dp"
  android:text="Change Image"/>
</RelativeLayout>
```

```
ImageView image;
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  addListenerOnButton();
}
public void addListenerOnButton() {
    final ImageView image = (ImageView) findViewById(R.id.imageView1);
    Button button = (Button) findViewById(R.id.btnChangeImage);
    button.setOnClickListener(new OnClickListener() {
    @Override
    public void onClick(View arg0) {
           image.setImageResource(R.drawable.department_of_computer_science2);
    //image.setImageResource(R.drawable.icon);
    }
    });
}
```

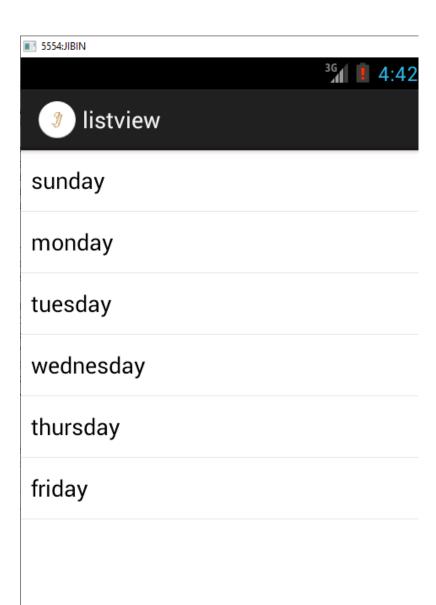




9. List View(Write a Program to Display the items in a list)

Activity_Main.Xml File

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
 <ListView
    android:id="@+id/lst_view"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout alignParentLeft="true"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true">
 </ListView>
   </RelativeLayout>
       MainActivity.java file
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.widget.ArrayAdapter;
import android.widget.ListView;
public class MainActivity extends Activity {
      ListView listView;
      String [] weeks={"sunday","monday","tuesday","wednesday","thursday","friday"};
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
     setContentView(R.layout.activity_main);
    listView= (ListView) findViewById(R.id.lst_view);
    ArrayAdapter<String> adapter=new
    ArrayAdapter<String>(getBaseContext(),android.R.layout.simple_list_item_1,weeks);
    listView.setAdapter(adapter);
         }
```



10. 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"</pre>
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <EditText
    android:id="@+id/editText1"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="62dp"
    android:ems="10"/>
  <EditText
    android:id="@+id/editText2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout below="@+id/editText1"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="18dp"
    android:ems="10"/>
  <TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

android:layout_alignParentBottom="true"

android:layout_marginBottom="107dp"/>

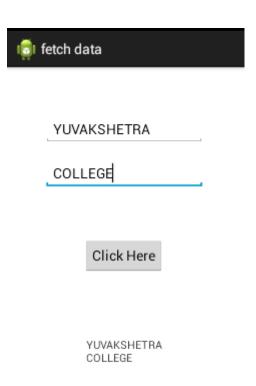
android:layout_centerHorizontal="true"

25

```
<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:layout_centerVertical="true"
    android:text="Click Here"/>
   </RelativeLayout>
       MainActivity.java file
package com.example.fetchdata;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.text.method.ScrollingMovementMethod;
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());
}
});
}
```



11. Write a program to display multiplication table of a given number

Activity_Main.Xml File

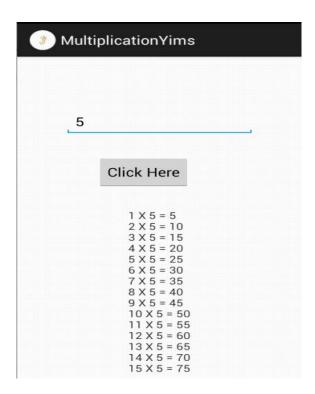
```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <EditText
    android:id="@+id/editText1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="76dp"
    android:ems="10"/>
  <Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignRight="@+id/textView1"
    android:layout_below="@+id/editText1"
    android:layout_marginTop="30dp"
    android:text="Click Here"/>
  <TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/button1"
    android:layout_centerHorizontal="true"
    android:layout marginTop="29dp"
    android:text="@string/hello_world"/>
```

MainActivity.java file

package com.example.multiplicationyims;

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; $i \le 15$; i++) { ans = (i * n);buffer.append($i + "X" + n + " = " + ans + "\n"$);

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



12. Write a program to Get IP Address of the device

AndroidManifest.xml

Add code:

```
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
```

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"
   tools:context=".MainActivity" >

<TextView
   android:id="@+id/getIPAddress"</pre>
```

```
android:id="@+id/getIPAddress"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:layout_centerVertical="true"
android:text="Please wait.. IP Loading"/>
```

</RelativeLayout>

```
package com.example.getip;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;
import java.util.ArrayList;
```

```
import android.os.Bundle;
import android.app.Activity;
import android.util.Log;
import android.view.Menu;
import android.widget.TextView;
public class MainActivity extends Activity {
       TextView textView;
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
textView = (TextView)findViewById(R.id.getIPAddress);
     getPublicIP();
  }
  private void getPublicIP() {
        new Thread(new Runnable(){
       ArrayList<String> urls=new ArrayList<String>();
       public void run(){
                   try {
                       URL url = new URL("https://api.ipify.org/");
                       HttpURLConnection conn=(HttpURLConnection) url.openConnection();
           conn.setConnectTimeout(60000);
           BufferedReader in = new BufferedReader(new
InputStreamReader(conn.getInputStream()));
           String str;
           while ((str = in.readLine()) != null) {
              urls.add(str);
            }
           in.close();
         } catch (Exception e) {
           Log.d("MyTag",e.toString());
         }
```

```
MainActivity.this.runOnUiThread(new Runnable(){
    public void run(){
        try {
            textView.setText("Your Device IP Address: " + urls.get(0));
        }
        catch (Exception e){
            textView.setText("Please check Network Connectivity");
        }
    });
});
```







Please wait.. IP Loading

Your Device IP Address: 137.97.121.211

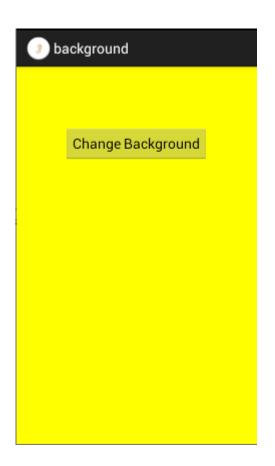
13. Write a program to Change the Background colour of the Activity

Activity_Main.Xml File

</RelativeLayout>

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

final RelativeLayout r1 = (RelativeLayout)findViewById(R.id.rl);
butn= (Button)findViewById(R.id.button1);
butn.setOnClickListener(new OnClickListener() {
@ Override
public void onClick(View arg0) {
    r1.setBackgroundColor(Color.YELLOW);
}
});
```



14. Write a program to Change the Background image

Activity_Main.Xml File

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools"
  android:id="@+id/rl"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="146dp"
    android:text="Image 1" />
  <Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignRight="@+id/button1"
    android:layout_below="@+id/button1"
    android:layout_marginTop="25dp"
    android:text="Image 2" />
  <ImageView
    android:id="@+id/imageView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout below="@+id/button2"
    android:src="@drawable/yims"/>
```

</RelativeLayout>

```
MainActivity.java file
package com.example.changebackgroundimage;
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 {
       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 boolean onCreateOptionsMenu(Menu menu) {
             // Inflate the menu; this adds items to the action bar if it is present.
              getMenuInflater().inflate(R.menu.activity_main, menu);
              return true;
       }
       @Override
       public void onClick(View v) {
             // TODO Auto-generated method stub
```

switch(v.getId()){

```
case R.id.button1:
    v1.setImageResource(R.drawable.jj);
    break;
    case R.id.button2:
    v1.setImageResource(R.drawable.yims);
    break;
}
```



Image 1

Image 2



15. Write a 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"</pre>
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  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="72dp"
    android:text="First Activity" />
  <Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textView1"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="32dp"
    android:text="Click Here For Next Activity" />
</RelativeLayout>
Second.Xml File
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
```

android:layout_width="match_parent"

android:layout_height="match_parent" >

```
<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_marginLeft="116dp"
    android:layout_marginTop="138dp"
    android:text="Second Activity"/>
</RelativeLayout>
MainActivity.java file
package com.example.intent;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.content.Intent;
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,Newactivity.class);
              startActivity(i);
              }
              });
                  }
```

SecondActivity.java file

```
package com.example.intent;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
public class Newactivity extends Activity {
                  @Override
                  protected void onCreate(Bundle savedInstanceState) {
                      super.onCreate(savedInstanceState);
                      setContentView(R.layout.second);
                  }
                  @Override
                  public boolean onCreateOptionsMenu(Menu menu) {
                     // Inflate the menu; this adds items to the action bar if it is present.
                      getMenuInflater().inflate(R.menu.activity_newactivity, menu);
                     return true;
                  }
}
```

OUTPUT





First Activity

Click Here For Next Activity

Second Activity