1. Program to check whether a number is prime or not

```
package com.example.myapplication;
import android.app.Activity;
import android.widget.EditText;
import android.widget.Toast;
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        final EditText GetNumber = (EditText)findViewById(R.id.getvalue);
        Button button = (Button) findViewById(R.id.result);
            public void onClick(View arg0) {
                int flag=0;
Double.parseDouble(GetNumber.getText().toString());
                if (flag == 0)
                    Toast t = Toast.makeText(getApplicationContext(), "Given
                    Toast t = Toast.makeText(getApplicationContext(), "Given
                    t.show();
```

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
   android:layout width="match parent"
   android:layout height="match parent"
   <TextView
       android:id="@+id/textView1"
       android:layout width="wrap content"
       android:layout alignParentTop="true"
       android:layout centerHorizontal="true"
       android:layout marginTop="36dp"
       android:text="Check Prime or Not" />
       android:id="@+id/getvalue"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout below="@+id/textView1"
       android:layout centerHorizontal="true"
       android:layout marginTop="100dp"
       android:id="@+id/result"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout below="@+id/getvalue"
       android:layout centerHorizontal="true"
       android:layout marginTop="26dp"
       android:text="Check" />
   <TextView
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout alignBottom="@+id/getvalue"
       android:layout alignLeft="@+id/getvalue"
       android:layout_marginLeft="18dp"
       android:text="Enter a Number" />
</RelativeLavout>
```

2. Write a program to display multiplication table of a given number Activity Main.Xml File

```
android:layout width="match parent"
   android: layout height="match parent"
       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: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"
</RelativeLayout>
```

```
package com.example.myapplication;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
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);
    }
}
});
}
</pre>
```

3. Program to Toast a message when a Button is pressed

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" >
    <Button
        android:id="@+id/Toast"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_true"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="147dp"
        android:text="Click Here" />
    </RelativeLayout>
```

```
package com.example.myapplication;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.OnClickListener;
import android.widget.Button;
import android.widget.Toast;
public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

4. Android application for adding two numbers

```
xmlns:tools="http://schemas.android.com/tools"
android:layout width="match parent"
android:layout height="match parent"
<TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignParentTop="true"
    android:layout centerHorizontal="true"
    android:textAppearance="?android:attr/textAppearanceMedium" />
<TextView
    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" />
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout alignBottom="@+id/textView2"
```

```
android:layout alignRight="@+id/textView1"
       android:inputType="number" >
       <requestFocus />
   </EditText>
   <TextView
       android:id="@+id/textView3"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout below="@+id/textView2"
       android:text="Number Two"
       android:textAppearance="?android:attr/textAppearanceMedium" />
       android:layout_width="wrap_content"
       android:layout alignLeft="@+id/textView3"
       android:layout alignRight="@+id/textView3"
       android:layout below="@+id/textView3"
       android:layout marginTop="46dp"
       android:text="Add" />
       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:inputType="number" />
   <TextView
       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>
```

```
package com.example.myapplication;
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));
    }
    });
}
```

5. Develop a simple user interface to display message

```
<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" >
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:id="@+id/display"
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button"
        android:layout_above="@+id/button"
        android:layout_marginBottom="26dp"
        android:text="Hi" />
    </RelativeLayout>
```

6. Create two menu items-opening a file-saving a file

Goto res> Menu> activity main.xml

MainActivity.java file

7. Inserting values into Spinner control using Edit Text and Button 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" >
    <EditText
        android:id="@+id/gettext"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textView1"
        android:layout_marginLeft="32dp"</pre>
```

```
android:layout marginTop="30dp"
    <requestFocus />
</EditText>
<TextView
    android:id="@+id/textView1"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignLeft="@+id/gettext"
    android:layout alignParentTop="true"
    android:layout marginTop="40dp"
    android:id="@+id/add"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout below="@+id/gettext"
    android:layout marginRight="68dp"
    android:layout marginTop="23dp"
    android:text="Enter " />
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout alignLeft="@+id/gettext"
    android:layout below="@+id/add"
    android:layout marginLeft="19dp"
    android:layout marginTop="28dp" />
```

```
package com.example.myapplication;
import java.util.ArrayList;
import java.util.Collection;
import android.os.Bundle;
import android.app.Activity;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.Toast;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        final EditText selection = (EditText) findViewById(R.id.gettext);
        Spinner spin = (Spinner) findViewById(R.id.spinner);
```

8. Implementation of Background Image

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/rl"
    android:layout_width="match_parent"
    tools:context=".MainActivity" >
    <Button
        android:layout_width="wrap_content"
        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_height="wrap_content"</pre>
```

```
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/cube" />
    </RelativeLayout>
```

```
package com.example.myapplication;
import android.app.Activity;
import android.widget.Button;
        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);
       btn2.setOnClickListener(this);
        int viewId = v.getId();
           v1.setImageResource(R.drawable.cube);
        } else if (viewId == R.id.button2) {
            v1.setImageResource(R.drawable.bg);
```

9. Implementation of arrayadapter

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:id="@+id/spinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentRight="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="132dp" />
    <TextView
        android:d="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="62dp"
        android:layout_marginTop="54dp"
        android:text="Array Adapter Program" />
    </RelativeLayout>
```

```
package com.example.myapplication;
import java.util.ArrayList;
import android.os.Bundle;
import android.app.Activity;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Spinner spin = (Spinner) findViewById(R.id.spinner);
        final ArrayList<String> items = new ArrayList<String>();
        ArrayAdapter aa = new
ArrayAdapter(this, android.R.layout.simple spinner item, items);
       aa.setDropDownViewResource(
                android.R.layout.simple spinner dropdown item);
        spin.setAdapter(aa);
```

11. Load menu item by parsing XML data

Goto res> Menu>menu main.xml

MainActivity.java file

13. Create a spinner that takes data from the String.xml file

Goto>Res/values/strings.xml

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/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_marginLeft="97dp"
        android:layout_marginTop="40dp"
        android:layout_marginTop="40dp"
        android:text="SPINNER PROGRAM" />
    <Spinner
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textView1"
        android:layout_below="@+id/textView1"
        android:layout_marginTop="65dp" />
    </RelativeLayout>
```

```
package com.example.myapplication;
import android.os.Bundle;
import android.app.Activity;
```

15. Write a program to start another activity from your own activity using intent

Activity Main.Xml File

Second.Xml File

MainActivity.java file

SecondActivity.java file