1. Design a user interface using Grid View
2. Write a program to design a User Interface using Normal List View

8. Design a user interface using Grid View

// xml file….place a gridview , set its numcolumn property

MainActivity.java

**public class** MainActivity **extends** AppCompatActivity {  
  
 GridView **gg**;  
  
 **static final** String[] ***numbers*** = **new** String[] {**"Abin"**,**"Vibin"**,**"febin"**};  
  
  
  
  
**public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
  
 setContentView(R.layout.***activity\_main***);  
  
 **gg**= (GridView) findViewById(R.id.***gridView1***);  
 **final** ArrayAdapter<String> adapter = **new** ArrayAdapter<String>(**this**,  
 R.layout.***activity\_main***,***textView***,***numbers***);  
 **gg**.setAdapter(adapter);  
  
*//for display a Toast message for clicking on an item*}  
  
  
  
}

9. Design a user interface using List View

Activity\_Main.XML

<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
  
 <**ListView  
 android:id="@+id/simpleListView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:divider="@color/colorPrimary"  
 android:dividerHeight="2dp"** />  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
  
 android:textSize="50dp"** />

MainActivity.java

**public class** MainActivity **extends** Activity  
{  
 *// Array of strings...* ListView **simpleList**;  
 String **countryList**[] = {**"India"**, **"China"**, **"australia"**, **"Portugle"**, **"America"**, **"NewZealand"**};  
  
 @Override **protected void** onCreate(Bundle savedInstanceState) {  
  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **simpleList** = (ListView)findViewById(R.id.***simpleListView***);  
  
 **final** ArrayAdapter<String> arrayAdapter = **new** ArrayAdapter<String>(**this**, R.layout.***activity\_main*** , ***textView***, **countryList**);  
  
 **simpleList**.setAdapter(arrayAdapter);

// To display which item selected on click

**simpleList**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
 @Override  
 **public void** onItemClick(AdapterView<?> adapterView, View view, **int** position, **long** l) {  
 String value=arrayAdapter.getItem(position);  
 Toast.*makeText*(getApplicationContext(),value,Toast.***LENGTH\_SHORT***).show();  
  
 }  
 });  
 }  
}