Title: Program to demonstrate Hello World

MainActivate.java

package com.example.helloworld;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
}

Activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

AndroidManifest.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.HelloWorld"  
 tools:targetApi="31">  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

Output:



Title: Write a program to study Intents for switching between activities.

Implicit Intent:

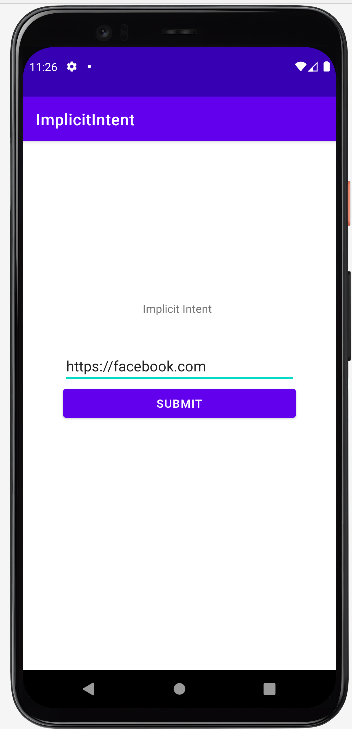
MainActivity.java

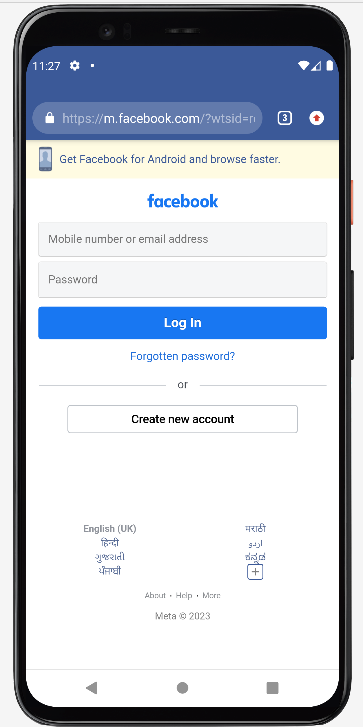
package com.example.implicitintent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 Button btn;  
 EditText txt;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
  
 public void openUrl(View view){  
 this.txt =(EditText) findViewById(R.id.*txtUrl*);  
 String url= txt.getText().toString();  
 Intent i = new Intent(Intent.*ACTION\_VIEW*, Uri.*parse*(url));  
 startActivity(i);  
  
 }  
}

activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 android:orientation="vertical">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Implicit Intent"  
 android:paddingTop="200dp"  
 android:paddingLeft="150dp"  
 />  
 <EditText  
 android:id="@+id/txtUrl"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Url"  
 android:paddingTop="50dp"  
 android:layout\_marginLeft="50dp"  
 android:layout\_marginRight="50dp"  
 />  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:layout\_marginLeft="50dp"  
 android:layout\_marginRight="50dp"  
 android:onClick="openUrl"  
 />  
  
</LinearLayout>

Output:





Explicit Intent:

activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:paddingLeft="150dp"  
 android:paddingTop="200dp"  
 android:text="Explicit Intent" />  
  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="50dp"  
 android:layout\_marginRight="50dp"  
 android:onClick="openActivity"  
 android:text="Go to second Activity" />  
  
</LinearLayout>

MainActivity.java

package com.example.explicitintent;  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 Button btn;  
 EditText txt;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
 public void openActivity(View view){  
  
 Intent i = new Intent(MainActivity.this, SecondActivity.class);  
 startActivity(i);  
  
 }  
}

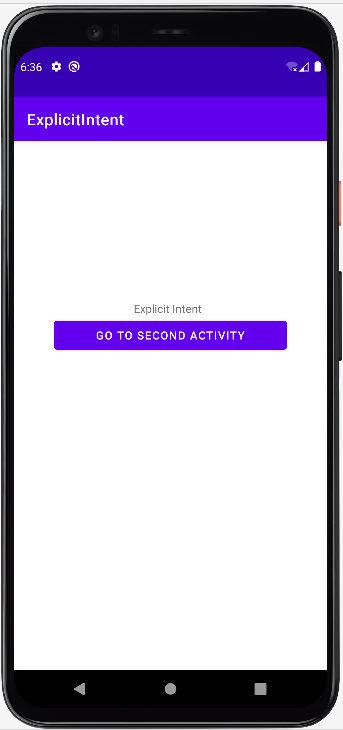
activity\_second.xml

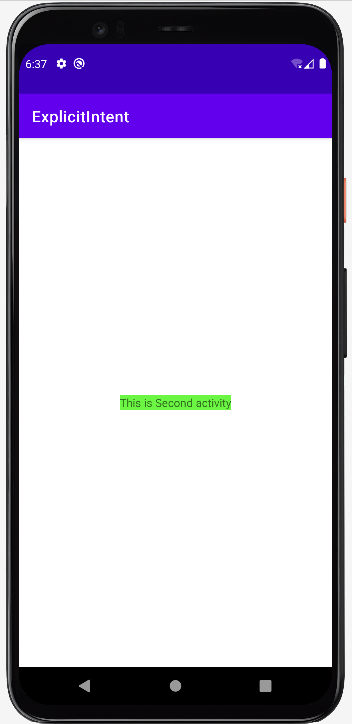
*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".SecondActivity">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="This is Second activity"  
 tools:ignore="MissingConstraints"  
 android:layout\_centerVertical="true"  
 android:layout\_centerHorizontal="true"  
 android:background="#6CF644"/>  
  
</RelativeLayout>

SecondActivity.java

package com.example.explicitintent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class SecondActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_second*);  
 }  
}

Output:





Title: write a program to use of different Layouts.

Linear Layout:

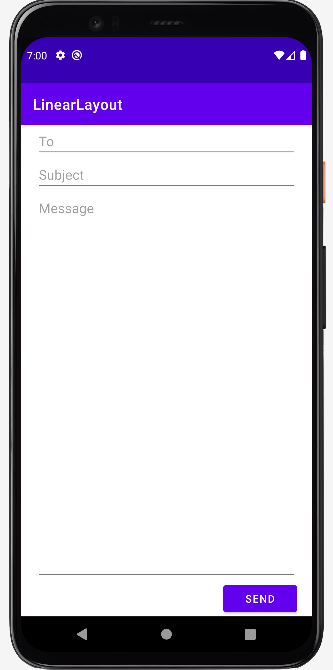
activity\_main.xml:

*<?*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:paddingLeft="20dp"  
 android:paddingRight="20dp"  
 android:orientation="vertical" >  
 <EditText  
 android:id="@+id/txtTo"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="To"/>  
 <EditText  
 android:id="@+id/txtSub"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Subject"/>  
 <EditText  
 android:id="@+id/txtMsg"  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="1"  
 android:gravity="top"  
 android:hint="Message"/>  
 <Button  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="right"  
 android:text="Send"/>  
</LinearLayout>

MainActivity.java:

package com.example.linearlayout;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
}

Output:



Relative Layout:

activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:layout\_centerVertical="true"  
 android:layout\_centerHorizontal="true"  
 />  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Button1"  
 android:layout\_alignParentRight="true"  
 android:layout\_centerVertical="true"  
 />  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/btn2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Button2"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 />  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/btn3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Button3"  
 android:layout\_alignParentLeft="true"  
 android:layout\_centerVertical="true"  
 />  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/btn4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Button4"  
 android:layout\_above="@id/btn2"  
 android:layout\_centerHorizontal="true"  
 />  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/btn5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Button5"  
 android:layout\_centerHorizontal="true"  
 android:layout\_alignParentTop="true"  
 />  
  
  
</RelativeLayout>

MainActivity.java

package com.example.relativelayout;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 }  
}

Frame Layout:

activity\_main.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical">  
 <ImageView  
 android:id="@+id/imgvw1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:scaleType="centerCrop"  
 android:src="@drawable/wlp" />  
 <TextView  
 android:id="@+id/txtvw1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="40dp"  
 android:background="#4C374A"  
 android:padding="10dp"  
 android:text="Grate wallpapers"  
 android:textColor="#FFFFFF"  
 android:textSize="20sp" />  
 <TextView  
 android:id="@+id/txtvw2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="right|bottom"  
 android:background="#AA000000"  
 android:padding="10dp"  
 android:text="28/Mar/2023"  
 android:textColor="#FFFFFF"  
 android:textSize="18sp" />  
</FrameLayout>

MainActivity.java

package com.example.framelayout;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
}

Output:



Table Layout:

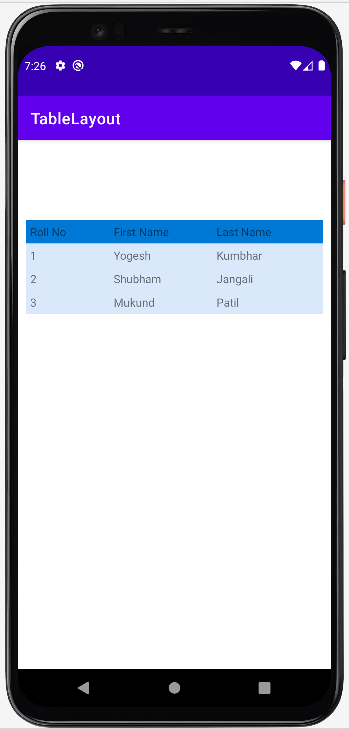
Activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginTop="100dp"  
 android:paddingLeft="10dp"  
 android:paddingRight="10dp" >  
 <TableRow android:background="#0079D6" android:padding="5dp">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Roll No" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="First Name" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Last Name" />  
 </TableRow>  
 <TableRow android:background="#DAE8FC" android:padding="5dp">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="1" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Yogesh" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Kumbhar" />  
 </TableRow>  
 <TableRow android:background="#DAE8FC" android:padding="5dp">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="2" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Shubham" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Jangali" />  
 </TableRow>  
 <TableRow android:background="#DAE8FC" android:padding="5dp">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="3" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Mukund" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Patil" />  
 </TableRow>  
</TableLayout>

MainActivity.java

package com.example.tablelayout;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
}

Output:



Web View:

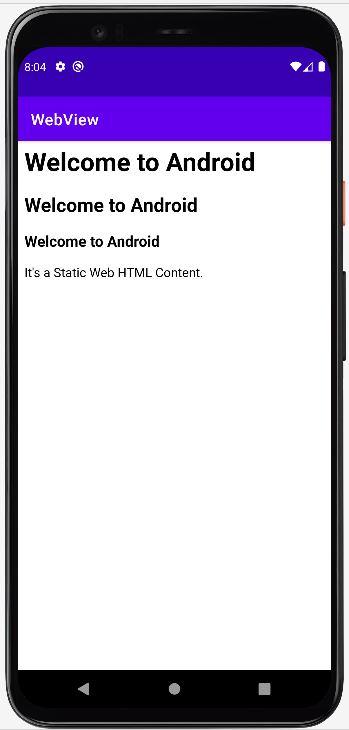
activity\_main.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<WebView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/webview"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent" />

MainActivity.java:

package com.example.webview;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.webkit.WebView;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 WebView wv = (WebView) findViewById(R.id.*webview*);  
 String customHtml = "<html><body><h1>Welcome to Android</h1>" +  
 "<h2>Welcome to Android</h2><h3>Welcome to Android</h3>" +  
 "<p>It's a Static Web HTML Content.</p>" +  
 "</body></html>";  
 wv.loadData(customHtml, "text/html", "UTF-8");  
 }  
}

Output:



List View:

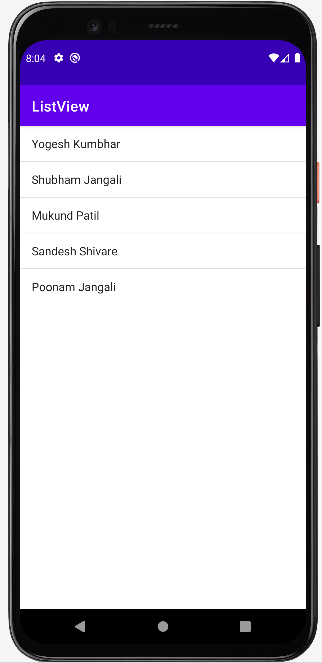
Activity\_main.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<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:orientation="vertical">  
 <ListView  
 android:id="@+id/userlist"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" >  
 </ListView>  
</LinearLayout>

MainActivity.java:

package com.example.listview;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
  
public class MainActivity extends AppCompatActivity {  
 private ListView mListView;  
 private ArrayAdapter aAdapter;  
 private String[] users = { "Yogesh Kumbhar", "Shubham Jangali", "Mukund Patil", "Sandesh Shivare", "Poonam Jangali"};  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 mListView = (ListView) findViewById(R.id.*userlist*);  
 aAdapter = new ArrayAdapter(this, android.R.layout.*simple\_list\_item\_1*, users);  
 mListView.setAdapter(aAdapter);  
 }  
}

Output:



Grid View:

activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<GridView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/gridview"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:columnWidth="110dp"  
 android:numColumns="auto\_fit"  
 android:verticalSpacing="10dp"  
 android:horizontalSpacing="10dp"  
 android:stretchMode="columnWidth"  
 android:gravity="center" />

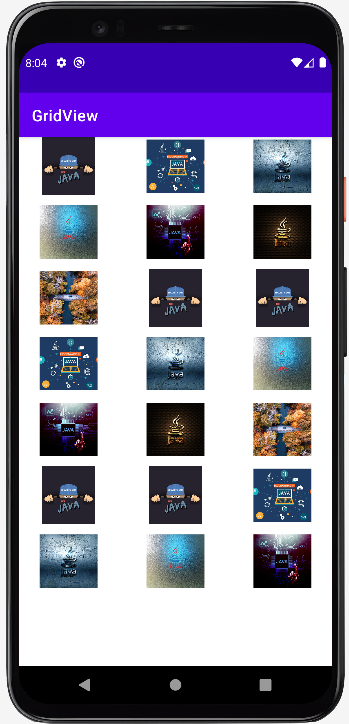
MainActivity.java

package com.example.gridview;  
  
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;  
 public ImageAdapter(Context c) {  
 mContext = c;  
 }  
 public int getCount() {  
 return thumbImages.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 = new ImageView(mContext);  
 imageView.setLayoutParams(new GridView.LayoutParams(200, 200));  
 imageView.setScaleType(ImageView.ScaleType.*CENTER\_CROP*);  
 imageView.setPadding(8, 8, 8, 8);  
 imageView.setImageResource(thumbImages[position]);  
 return imageView;  
 }  
 *// Add all our images to arraylist* public Integer[] thumbImages = {  
 R.drawable.*img1*, R.drawable.*img2*,  
 R.drawable.*img3*, R.drawable.*img4*,  
 R.drawable.*img5*, R.drawable.*img6*,  
 R.drawable.*img7*, R.drawable.*img1*,  
 R.drawable.*img1*, R.drawable.*img2*,  
 R.drawable.*img3*, R.drawable.*img4*,  
 R.drawable.*img5*, R.drawable.*img6*,  
 R.drawable.*img7*, R.drawable.*img1*,  
 R.drawable.*img1*, R.drawable.*img2*,  
 R.drawable.*img3*, R.drawable.*img4*,  
 R.drawable.*img5* };  
}

ImageAdapter.java

package com.example.gridview;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.GridView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 GridView gv = (GridView) findViewById(R.id.*gridview*);  
 gv.setAdapter(new ImageAdapter(this));  
 gv.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
 public void onItemClick(AdapterView<?> parent, View v, int position, long id) {  
 Toast.*makeText*(MainActivity.this, "Image Position: " + position, Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 }  
}

Output:



Title: Write a program to use of Intent for SMS and Telephony.

activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="vertical" android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
 <TextView  
 android:id="@+id/fstTxt"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="100dp"  
 android:layout\_marginTop="150dp"  
 android:text="Mobile No" />  
 <EditText  
 android:id="@+id/mblTxt"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="100dp"  
 android:ems="10"/>  
  
 <TextView  
 android:id="@+id/secTxt"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Message"  
 android:layout\_marginLeft="100dp" />  
 <EditText  
 android:id="@+id/msgTxt"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="100dp"  
 android:ems="10" />  
 <Button  
 android:id="@+id/btnSend"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="100dp"  
 android:text="Send SMS" />  
</LinearLayout>

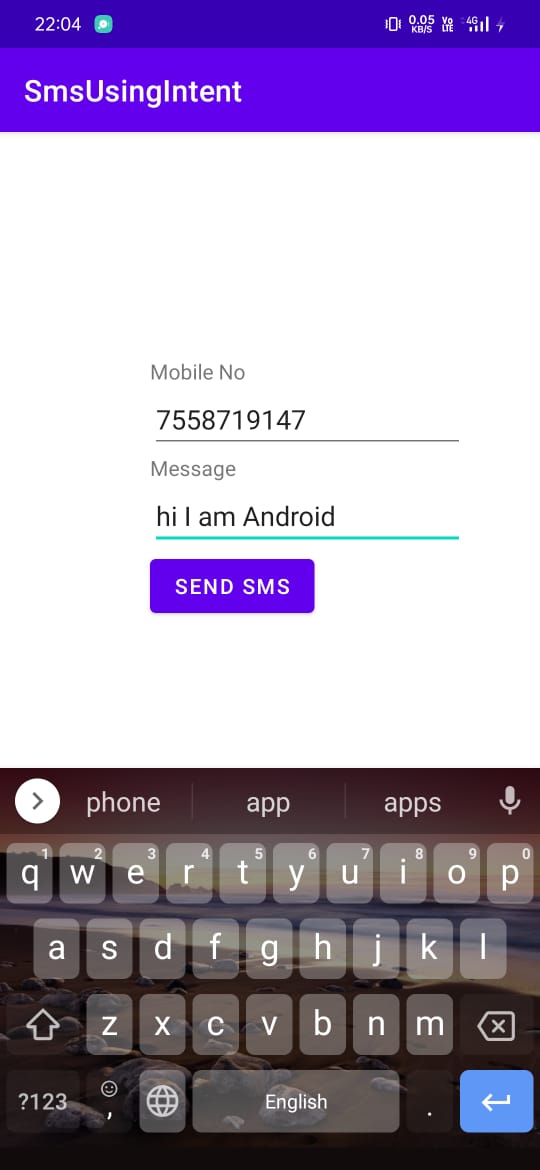
MainActivity.java

package com.example.smsusingintent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.telephony.SmsManager;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 private EditText txtMobile;  
 private EditText txtMessage;  
 private Button btnSms;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 txtMobile = (EditText)findViewById(R.id.*mblTxt*);  
 txtMessage = (EditText)findViewById(R.id.*msgTxt*);  
 btnSms = (Button)findViewById(R.id.*btnSend*);  
 btnSms.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 try{  
 Intent i = new Intent(Intent.*ACTION\_VIEW*);  
 i.setData(Uri.*parse*("smsto:"));  
 i.setType("vnd.android-dir/mms-sms");  
 i.putExtra("address", new String(txtMobile.getText().toString()));  
 i.putExtra("sms\_body",txtMessage.getText().toString());  
 startActivity(Intent.*createChooser*(i, "Send sms via:"));  
 }  
 catch(Exception e){  
 Toast.*makeText*(MainActivity.this, "SMS Failed to Send, Please try again", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
}

AndroidManifest.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools">  
 <uses-permission android:name="android.permission.SEND\_SMS"/>  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.SmsUsingIntent"  
 tools:targetApi="31">  
  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

Output:





Title: Write a program to study and demonstrate Broadcast Receiver.

Title: Program to demonstrate Buttons, Text Fields, Checkboxes, Radio Buttons, and Toggle Buttons with their events handler.