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**Batch & Roll:** A3-63

**Experiment No.2**

**Title:** To design an application using Linear Layout, Relative Layout, Table Layout, Frame Layout and Intent.

**MainActivity.java**

package com.example.expt2;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button b1;  
 EditText t1;  
 EditText t2;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 b1=findViewById(R.id.*submitLL*);  
  
 t1=findViewById(R.id.*editTextTextPersonName4*);  
 t2=findViewById(R.id.*editTextTextPersonName5*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i = new Intent(MainActivity.this,activityRL.class);  
 String str1 = t1.getText().toString();  
 String str2 = t2.getText().toString();  
 i.putExtra("name",str1);  
 i.putExtra("age",str2);  
 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"  
 android:orientation="vertical"  
 tools:context=".MainActivity"  
 android:layout\_marginTop="100dp">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:gravity="center"  
 android:layout\_marginBottom="30dp">  
  
 <TextView  
 android:id="@+id/nameLabel"  
 android:layout\_width="61dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="20dp"  
 android:fontFamily="sans-serif"  
 android:text="Name"  
 />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:autofillHints=""  
 android:ems="10"  
 android:inputType="textPersonName"  
 tools:ignore="TouchTargetSizeCheck,SpeakableTextPresentCheck" />  
 </LinearLayout>  
  
  
  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:gravity="center"  
 android:layout\_marginBottom="50dp">  
  
 <TextView  
 android:id="@+id/ageLabel"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginRight="57dp"  
 android:text="Age"  
 />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 tools:ignore="TouchTargetSizeCheck,SpeakableTextPresentCheck" />  
  
 </LinearLayout>  
  
 <Button  
 android:id="@+id/submitLL"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:text="Submit" />  
  
 <Button  
 android:id="@+id/refreshLL"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:text="Refresh" />  
  
</LinearLayout>

**activityRL.java**

package com.example.expt2;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
  
public class activityRL extends AppCompatActivity {  
  
 Button b2;  
 TextView t1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_rl*);  
 b2=findViewById(R.id.*submitRL*);  
 t1=findViewById(R.id.*ok*);  
 t1.setText(getIntent().getStringExtra("name"));  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i = new Intent(activityRL.this,activityTL.class);  
 startActivity(i);  
 }  
 });  
 }  
}

**activity\_rl.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=".activityRL">  
  
 <TextView  
 android:id="@+id/nameLabel2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="75dp"  
 android:layout\_marginTop="112dp"  
 android:text="Name"  
 tools:layout\_editor\_absoluteX="44dp"  
 tools:layout\_editor\_absoluteY="46dp" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginTop="98dp"  
 android:layout\_marginEnd="28dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:minHeight="48dp"  
 tools:ignore="SpeakableTextPresentCheck" />  
  
 <TextView  
 android:id="@+id/ageLabel2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/nameLabel2"  
 android:layout\_alignParentStart="true"  
 android:layout\_marginStart="75dp"  
 android:layout\_marginTop="60dp"  
 android:text="Age" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/editTextTextPersonName"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginTop="40dp"  
 android:layout\_marginEnd="28dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 tools:ignore="TouchTargetSizeCheck,SpeakableTextPresentCheck" />  
  
 <Button  
 android:id="@+id/submitRL"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="288dp"  
 android:text="Submit" />  
  
 <Button  
 android:id="@+id/refreshRL"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="354dp"  
 android:layout\_marginBottom="330dp"  
 android:text="Refresh" />  
  
 <TextView  
 android:id="@+id/ok"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="150dp"  
 android:text="TextView"  
 android:textSize="25dp" />  
</RelativeLayout>

**activityTL.java**

package com.example.expt2;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
  
public class activityTL extends AppCompatActivity {  
 Button b;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_tl*);  
 b=findViewById(R.id.*submitTL*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i=new Intent(activityTL.this,activityFL.class);  
 startActivity(i);  
 }  
 });  
 }  
}

**activity\_tl.xml**

<?xml version="1.0" encoding="utf-8"?>  
<TableLayout 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=".activityTL"  
 android:layout\_marginTop="100dp">  
  
 <TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:layout\_marginBottom="30dp" >  
  
 <TextView  
 android:id="@+id/nameLabel3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Name" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />  
 </TableRow>  
  
 <TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:layout\_marginBottom="30dp">  
  
 <TextView  
 android:id="@+id/ageLabel3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Age" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />  
 </TableRow>  
  
 <TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center">  
  
 <Button  
 android:id="@+id/submitTL"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:text="Submit" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Refresh"  
 android:layout\_gravity="center" />  
 </TableRow>  
</TableLayout>

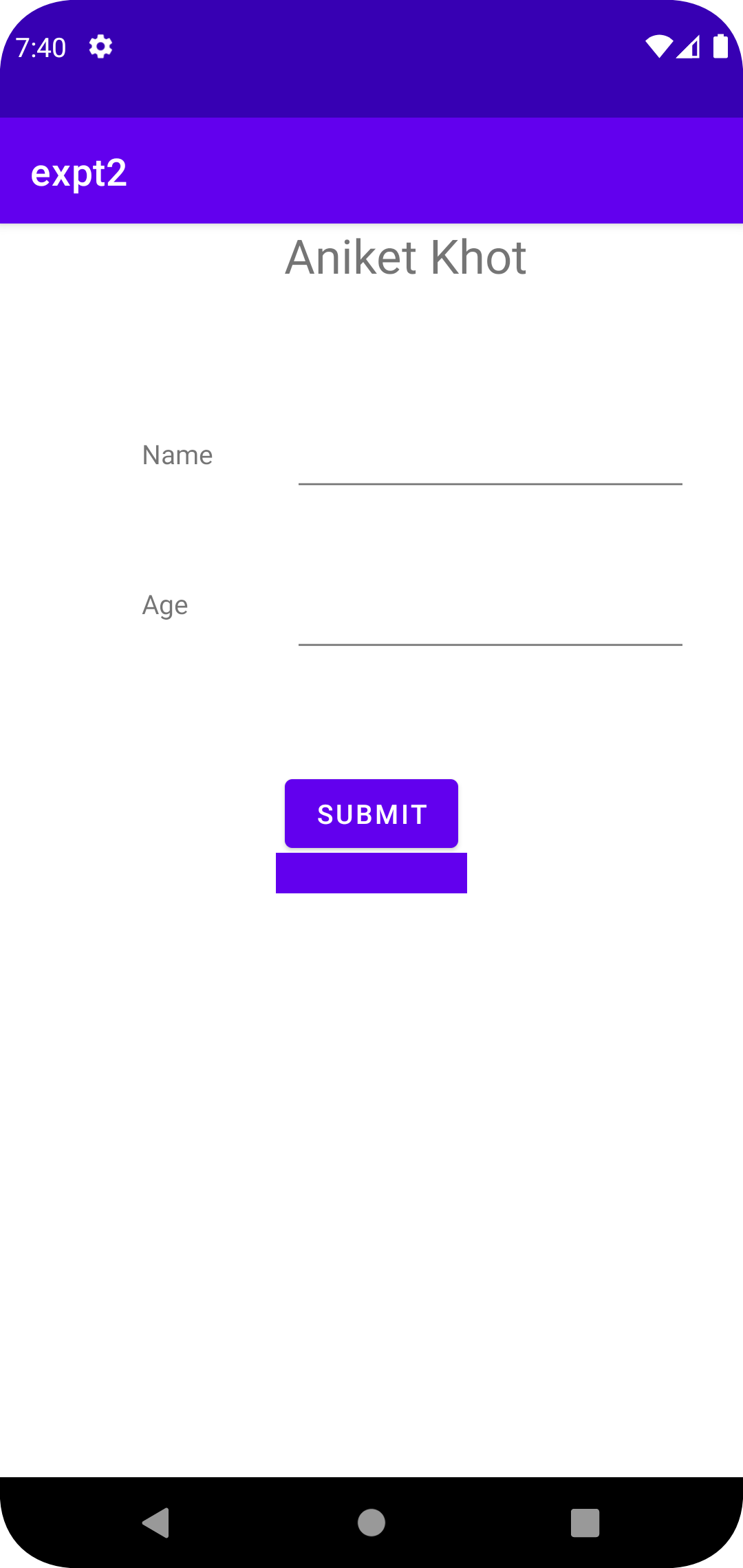
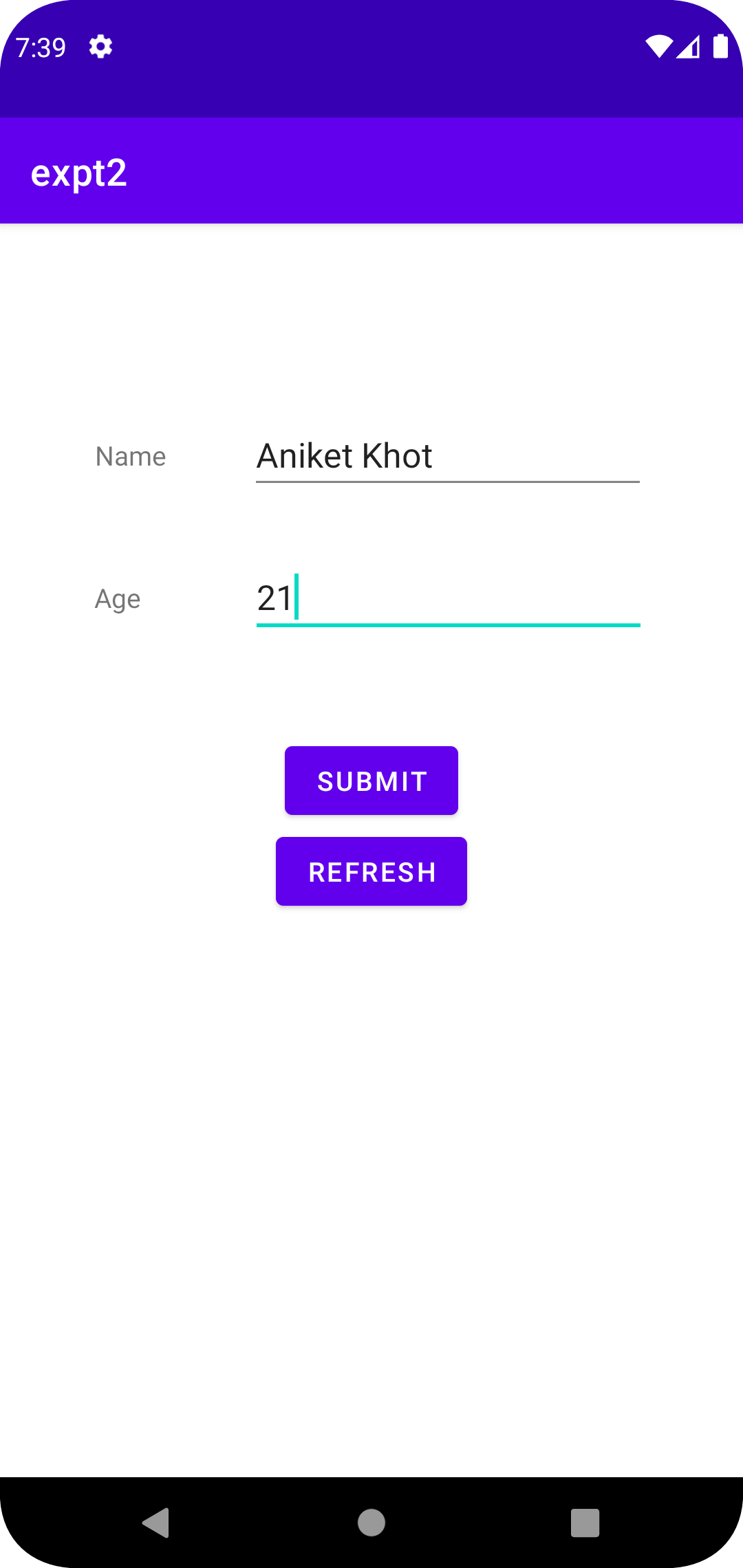
**activityFL.java**

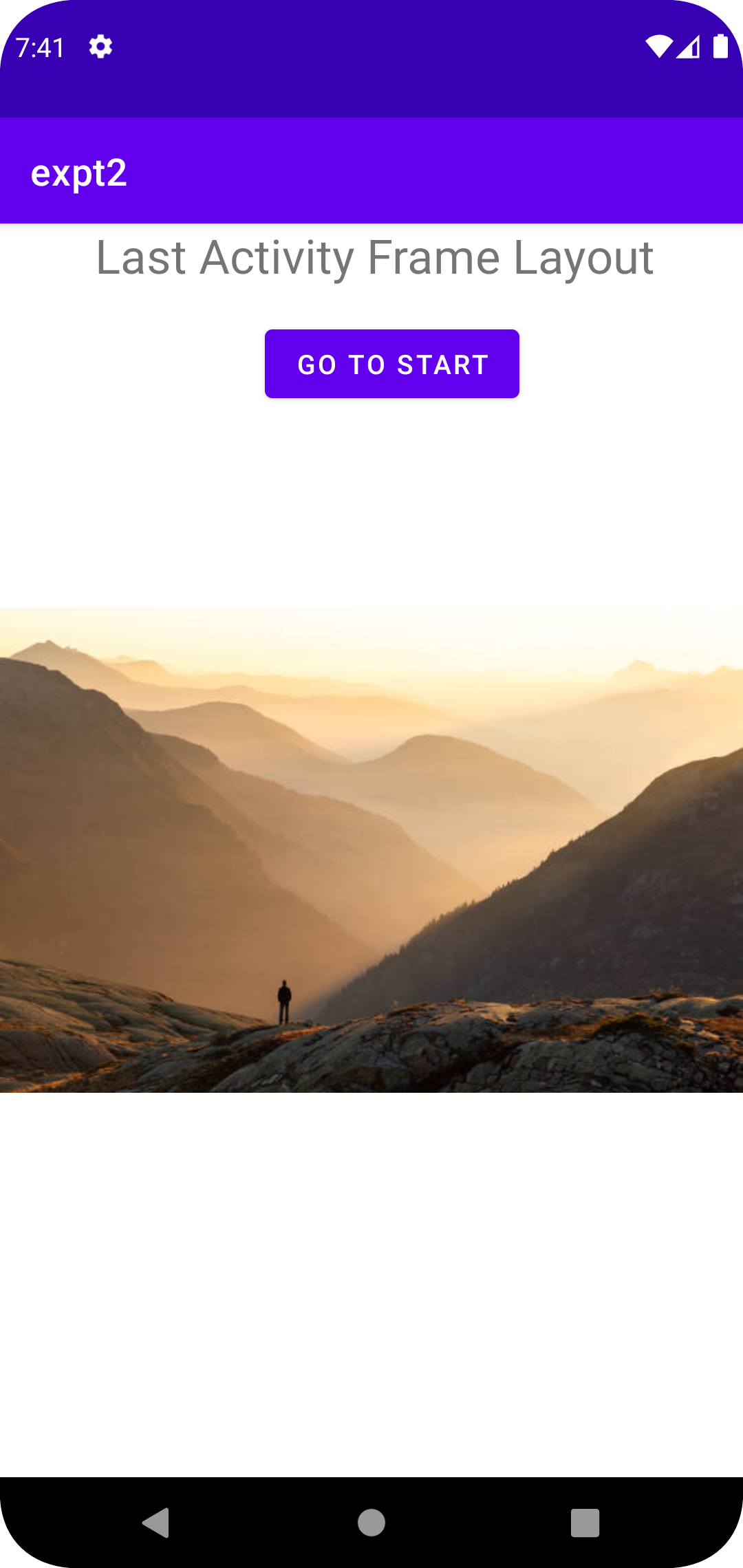
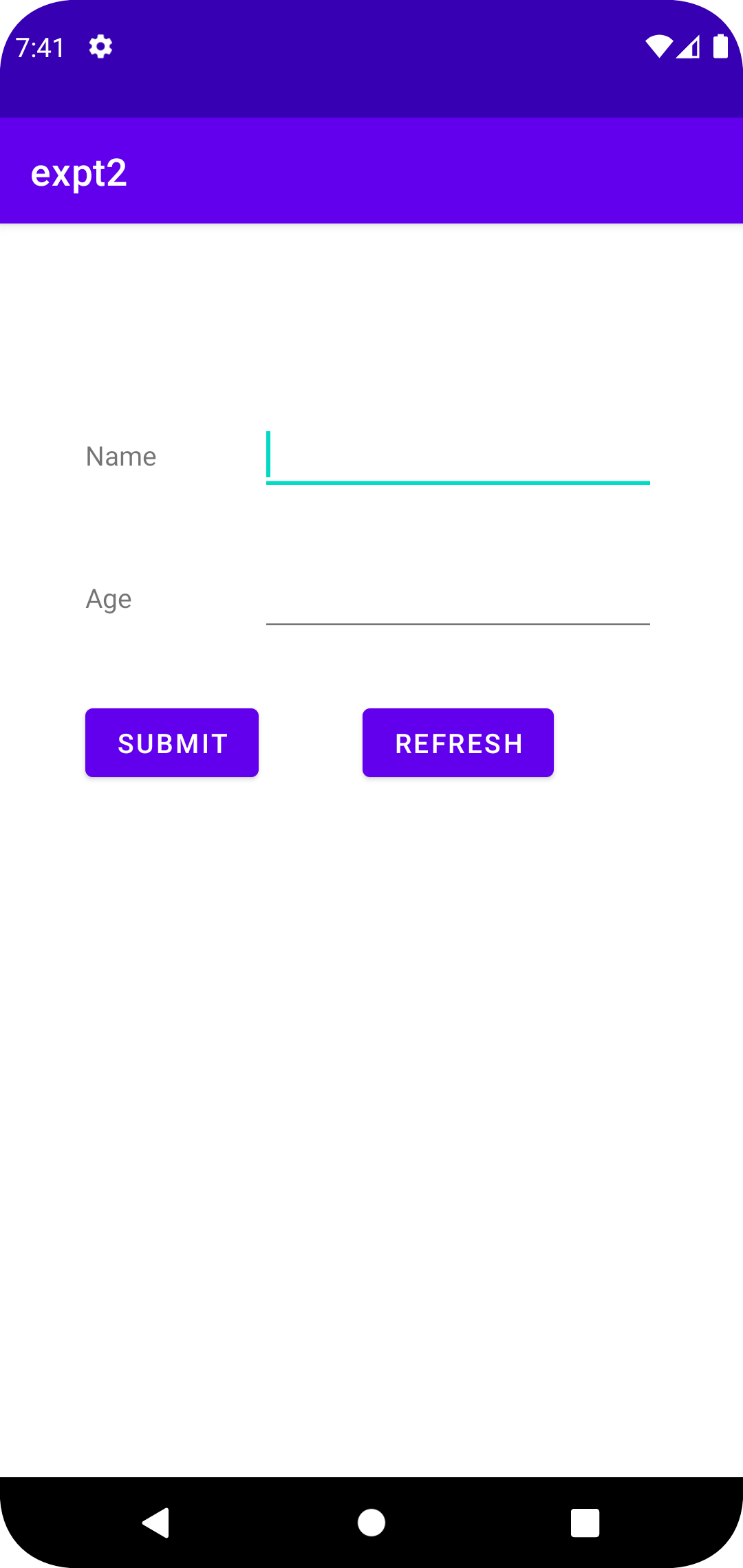
package com.example.expt2;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
  
public class activityFL extends AppCompatActivity {  
  
 Button b;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_fl*);  
 b=findViewById(R.id.*start*);  
 b.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent i=new Intent(activityFL.this,MainActivity.class);  
 startActivity(i);  
 }  
 });  
 }  
}

**activity\_fl.xml**

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout 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=".activityFL">  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 app:srcCompat="@drawable/img" />  
  
 <TextView  
 android:id="@+id/finalText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="50dp"  
 android:text="Last Activity Frame Layout"  
 android:textSize="25dp" />  
  
 <Button  
 android:id="@+id/start"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="140dp"  
 android:layout\_marginTop="50dp"  
 android:text="Go to Start" />  
</FrameLayout>

**Output:-**

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