*<?***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:layout\_alignParentStart="true"**

**android:layout\_alignParentTop="true"**

**android:layout\_marginStart="125dp"**

**android:layout\_marginTop="60dp"**

**android:textSize="30dp"**

**android:text="Hey there!!!"**

/>

<**Button**

**android:id="@+id/button"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_alignParentStart="true"**

**android:layout\_alignParentTop="true"**

**android:layout\_marginStart="136dp"**

**android:layout\_marginTop="177dp"**

**android:text="Click"** />

</**RelativeLayout**>

**package** com.example.archana.a3\_saved\_instance\_state;

**import** android.os.PersistableBundle;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.util.Log;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.Toast;

**public class** MainActivity **extends** AppCompatActivity

**implements** View.OnClickListener{

Button **b**;

**int i**=0; *// button click counter variable*

*// Along with this try persisting the values of the views such as edit text as mentioned in class*

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

*/\* if (savedInstanceState != null) {*

**i** *= savedInstanceState.getInt("i");*

*Toast.makeText(this, " " +*

*"onCreate i= "+***i***,*

*Toast.****LENGTH\_SHORT****).show();*

*}*

*else*

*{*

*Toast.makeText(this,*

*" onCreate - no data", Toast.LENGTH\_SHORT).show();*

*}\*/*

setContentView(R.layout.***activity\_main***);

**b** = findViewById(R.id.***button***);

**b**.setOnClickListener(**this**);

}

@Override

**public void** onClick(View view) {

**if**(view.getId()==**b**.getId())

**i**++;

Toast.*makeText*(**this**,

**"Hellooo... clicked "**+**i**,

Toast.***LENGTH\_SHORT***).show();

Log.*d*(**"MainActivity"**,**"Button Clicked... "**);

}

@Override

**protected void** onSaveInstanceState(

Bundle outState) {

**super**.onSaveInstanceState(outState);

outState.putInt(**"i"**,**i**);

Toast.*makeText*(**this**,

**"onSaveInstanceState save i = "**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

@Override

**protected void** onRestoreInstanceState

(Bundle savedInstanceState) {

**super**.onRestoreInstanceState(savedInstanceState);

**if** (savedInstanceState != **null**) {

**i** = savedInstanceState.getInt(**"i"**);

Toast.*makeText*(**this**,

**"onRestoreInstanceState i = "**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

**else**

{

Toast.*makeText*(**this**,

**" onRestoreInstanceState - no data"**,

Toast.***LENGTH\_SHORT***).show();

}

}

@Override

**protected void** onStart() {

**super**.onStart();

Toast.*makeText*(**this**, **" OnStart i= "**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

@Override

**protected void** onPause() {

**super**.onPause();

Toast.*makeText*(**this**, **"OnPause i= "**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

@Override

**protected void** onResume() {

**super**.onResume();

Toast.*makeText*(**this**, **"OnResume i= "**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

@Override

**protected void** onStop() {

**super**.onStop();

Toast.*makeText*(**this**, **"OnStop i= "**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

@Override

**protected void** onRestart() {

**super**.onRestart();

Toast.*makeText*(**this**, **"OnRestart i= "**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

@Override

**protected void** onDestroy() {

**super**.onDestroy();

Toast.*makeText*(**this**, **"OnDestroy i="**+**i**,

Toast.***LENGTH\_SHORT***).show();

}

}