5.counter application

File name:counter

Android.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">  
  
 <LinearLayout  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:background*="#DCE398"  
 *android:orientation*="vertical"  
 *tools:layout\_editor\_absoluteX*="143dp"  
 *tools:layout\_editor\_absoluteY*="153dp">  
  
 <TextView  
 *android:id*="@+id/textView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="70dp"  
 *android:background*="#4CAF50"  
 *android:gravity*="center"  
 *android:text*="COUNTER APPLICATION"  
 *android:textColor*="#221F1F"  
 *android:textSize*="35sp" />  
  
 <EditText  
 *android:id*="@+id/count"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="70dp"  
 *android:layout\_marginTop*="50dp"  
 *android:background*="#009688"  
 *android:ems*="10"  
 *android:gravity*="center"  
 *android:inputType*="textPersonName"  
 *android:text*="counter"  
 *android:textSize*="30sp" />  
  
 <Button  
 *android:id*="@+id/start"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_marginStart*="100dp"  
 *android:layout\_marginLeft*="100dp"  
 *android:layout\_marginTop*="50dp"  
 *android:layout\_marginEnd*="100dp"  
 *android:layout\_marginRight*="100dp"  
 *android:text*="start" />  
  
 <Button  
 *android:id*="@+id/stop"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_marginStart*="100dp"  
 *android:layout\_marginLeft*="100dp"  
 *android:layout\_marginTop*="50dp"  
 *android:layout\_marginEnd*="100dp"  
 *android:layout\_marginRight*="100dp"  
 *android:text*="stop" />  
 </LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

Mainactiviy.java

*package* com.example.counter;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.TextView;  
  
*public class* MainActivity *extends* AppCompatActivity {  
*int* counter;  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 TextView textcounter = findViewById(R.id.*count*);  
 Button startbutton = findViewById(R.id.*start*);  
 Button stopbutton = findViewById(R.id.*stop*);  
 startbutton.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 *new* Thread(*new* Runnable() {  
 @Override  
 *public void* run() {  
 *while*(!stopbutton.isPressed())  
 {  
 *try*{  
 Thread.*sleep*(500);  
 }*catch* (InterruptedException e)  
 {  
 e.printStackTrace();  
 *return*;  
 }  
 textcounter.post(*new* Runnable() {  
 @Override  
 *public void* run() {  
 counter++;  
 textcounter.setText(""+counter);  
 }  
 });  
 }  
 }  
 }).start();  
 }  
 });  
 stopbutton.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 *if*(counter==0)  
 {  
 textcounter.setText(""+counter);  
 }  
 *try*{  
 Thread.*sleep*(500);  
 Thread.*interrupted*();  
 counter=0;  
 }*catch*(Exception e){  
 e.printStackTrace();  
 }  
 }  
 });  
 }  
}