.Java File

**package** com.example.counter;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.os.Bundle;  
**import** android.os.Handler;  
**import** android.os.Looper;  
**import** android.os.Message;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 Button **btnStart**, **btnStop**;  
 TextView **counterValue**;  
 **public int counter** = 0;  
 **public** Boolean **running** = **false**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **btnStart** = (Button) findViewById(R.id.***btn\_start***);  
 **btnStop** = (Button) findViewById(R.id.***btn\_stop***);  
 **counterValue** = (TextView) findViewById(R.id.***txt\_value***);  
 }  
  
 **public void** buttonstart(View view) {  
 **if** (view.equals(**btnStart**)) {  
 counterStart();  
 }  
 }  
  
 **private void** counterStop() {  
 **this**.**running** = **false**;  
 **btnStart**.setEnabled(**true**);  
 **btnStop**.setEnabled(**false**);  
 }  
  
 **private void** counterStart() {  
 **counter** = 0;  
 **running** = **true**;  
 System.***out***.println(**"Start->"** + Thread.*currentThread*().getName());  
 **new** MyCounter().start();  
 **btnStart**.setEnabled(**false**);  
 **btnStop**.setEnabled(**true**);  
 }  
  
 **public void** buttonstop(View view) {  
 **if** (view.equals(**btnStop**)) {  
 counterStop();  
 }  
 }  
  
 Handler **handler** = **new** Handler(Looper.*getMainLooper*()) {  
 **public void** handleMessage(Message mes) {  
 **counterValue**.setText(String.*valueOf*(mes.**what**));  
 }  
 };  
  
 **class** MyCounter **extends** Thread {  
 **public void** run() {  
 System.***out***.println(**"mycounter->"** + Thread.*currentThread*().getName());  
 **while** (**running**) {  
 **counter**++;  
 **handler**.sendEmptyMessage(**counter**);  
 **try** {  
 Thread.*sleep*(1000);  
 } **catch** (Exception e) {  
 }  
 }  
  
 }  
 }  
}

**.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"**>  
  
 <**Button  
 android:id="@+id/btn\_stop"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Counter stop"  
 android:onClick="buttonstop"  
 android:textSize="25sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.418"  
 tools:ignore="OnClick"** />  
  
 <**TextView  
 android:id="@+id/txt\_value"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Counter status"  
 android:textSize="30dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.094"** />  
  
 <**Button  
 android:id="@+id/btn\_start"  
 android:textSize="25sp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Counter Start"  
 android:onClick="buttonstart"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.281"  
 tools:ignore="OnClick"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>