**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:id="@+id/textView"  
 android:layout\_width="315dp"  
 android:layout\_height="100dp"  
 android:layout\_marginTop="100dp"  
 android:text="COUNTER APPLICATION"  
 android:textAlignment="center"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/clabel"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="COUNTER VALUE"  
 android:textAlignment="center"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView" />  
  
 <Button  
 android:id="@+id/startb"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="START"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/clabel" />  
  
 <Button  
 android:id="@+id/stopb"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="32dp"  
 android:text="STOP"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/startb" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.os.Handler;  
import android.os.Message;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
  
 TextView clabel;  
 Button startb,stopb;  
 int c=0;  
 boolean running=false;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 clabel=(TextView)findViewById(R.id.*clabel*);  
 startb=(Button)findViewById(R.id.*startb*);  
 stopb=(Button)findViewById(R.id.*stopb*);  
 startb.setOnClickListener(this);  
 stopb.setOnClickListener(this);  
  
 }  
  
 @Override  
 public void onClick(View v) {  
 if(v.equals(startb)) {  
 c = 0;  
 running = true;  
 new MyCounter().start();  
 }  
 else if(v.equals(stopb))  
 {  
 running=false;  
  
 }  
 }  
 Handler handler=new Handler(){  
 public void handleMessage(Message m)  
 {  
 clabel.setText(String.*valueOf*(m.what));  
 }  
  
 };  
 class MyCounter extends Thread{  
  
 public void run(){  
 while(running){  
 c++;  
 handler.sendEmptyMessage(c);  
 try{  
 Thread.*sleep*(1000);  
 }  
 catch(Exception e){}  
  
 }  
  
 }  
 }  
}