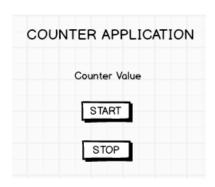
LAB PROGRAM 5

Write a program to create an activity with two buttons START and STOP. On pressing of the START button, the activity must start the counter by displaying the numbers from One and the counter must keep on counting until the STOP button is pressed. Display the counter value in a TextViewcontrol



COUNTER APPLICATION ..> TEXTVIEW COUNTER Value --→ Text View ID: txt value

Start -→ Button ID: btn start

Stop →Button , ID: btn stop

```
package com.example.counterpgm5;
import static java.lang.Thread.currentThread;
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 implements
View.OnClickListener {
   Button buttonStart, buttonStop;
     TextView counterValue;
     public int counter = 0;
     public boolean running = false;
```

```
@Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity main);
      buttonStart = (Button)
findViewById(R.id.btn start);
buttonStart.setOnClickListener(this);
         buttonStop = (Button)
findViewById(R.id.btn stop);
buttonStop.setOnClickListener(this);
counterValue = (TextView)
findViewById(R.id.txt value);
   }
   @Override
   public void onClick(View v) {
      if (v.equals(buttonStart)) {
              counterstart();
         } else if (v.equals(buttonStop))
              counterStop();
         }
   private void counterStop() {
      this.running = false;
         buttonStop.setEnabled(false);
         buttonStart.setEnabled(true);
```

```
private void counterstart() {
     counter = 0;
        running = true;
        System.out.println("start ->" +
Thread.currentThread().getName());
        new MyCounter().start();
        buttonStart.setEnabled(false);
        buttonStop.setEnabled(true);
   }
  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) { }
     }
  }
```