Program 5:

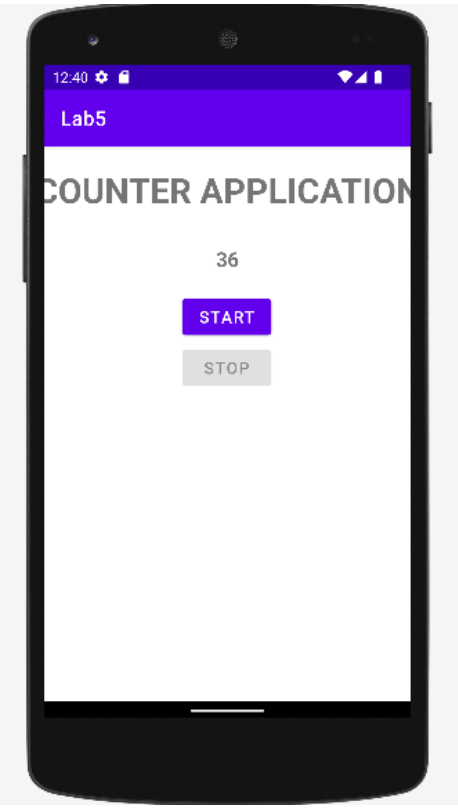
Write a program to create an activity with two buttons START and STOP. On pressing of the START button, the activity must start the counter by displaying the numbers from One and the counter must keep on counting until the STOP button is pressed. Display the counter value in a TextView control.

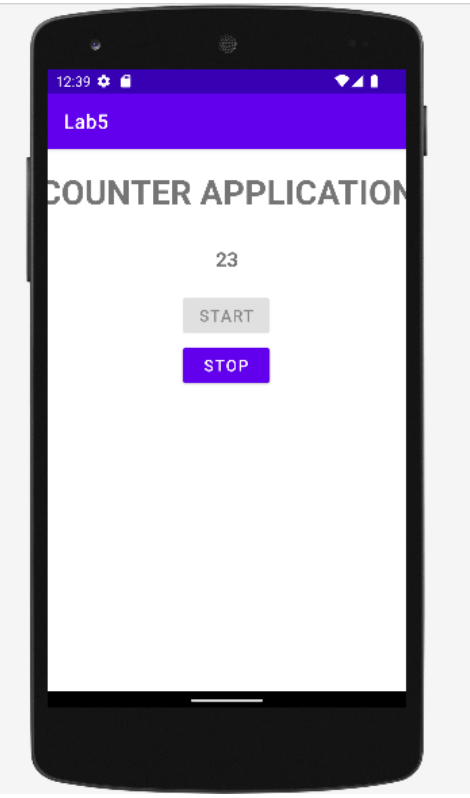
Mainactivity.Java

```
package com.example.lab5;
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 btnstart,btnstop;
TextView txt;
int counter=0;
boolean running=false;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btnstart=(Button)findViewById(R.id.button);
        btnstart.setOnClickListener(this);

        btnstop=(Button)findViewById(R.id.button2);
        btnstop.setOnClickListener(this);

        txt=(TextView)findViewById(R.id.textView);
    }
```

```
@Override
    public void onClick(View view) {
        if(view.equals(btnstart))
            counterstart();
        else if(view.equals(btnstop))
           counterstop();

    }

    private void counterstop() {
        this.running=false;
        btnstart.setEnabled(true);
        btnstop.setEnabled(false);

    }

    private void counterstart() {
        counter=0;running=true;
        new Mycounter().start();
        btnstart.setEnabled(false);
        btnstop.setEnabled(true);
    }
Handler h= new Handler(Looper.getMainLooper())
{
    public void handleMessage(Message msg)

    {
        txt.setText(String.valueOf(msg.what));
    }
};
    class Mycounter extends Thread{
        public void run() {
            while (running) {
                counter++;
                h.sendEmptyMessage(counter);
                try {
                    Thread.sleep(1000);
                }
                catch(Exception e) {}

            }
        }
    }
}
```

Output:


12:40
Lab5
COUNTER APPLICATION
36
START
STOP


12:39
Lab5
COUNTER APPLICATION
23
START
STOP