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 Text View control.

XML Part– activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
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"
 android:orientation="vertical"
 tools:context=".MainActivity">
 <TextView
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:text="COUNTER APPLICATION"
 android:textSize="30sp"

android:textColor="@color/design_default_color_primary"
 android:textAlignment="center"
 />
 <TextView
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:id="@+id/count"
 android:textAlignment="center"
 android:textSize="20sp"

android:textColor="@color/design_default_color_primary"
 />
 <Button
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:id="@+id/start"
 android:text="START"
android:onClick="start"
 android:textSize="20sp"
 />
 <Button
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:id="@+id/stop"
 android:text="STOP"
 android:onClick="stop"
 android:textSize="20sp"
 />
</LinearLayout>
```

Java Code – MainActivity.java

```java
package com.example.program5;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
int i=1;
Button start,stop;
TextView counter;
Handler myhandler=new Handler();
 @Override
 protected void onCreate(Bundle savedInstanceState) {
 super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_main);
 start=findViewById(R.id.start);
 stop=findViewById(R.id.stop);
 counter=findViewById(R.id.count);
 }
 public void start(View v)
 {
 i=1;
 myhandler.postDelayed(Threadcount,0);
 }
 public void stop(View v)
 {
 myhandler.removeCallbacks(Threadcount);
 }
 public Runnable Threadcount=new Runnable()
 {
 @Override
 public void run() {
 counter.setText(""+i);
 i++;
 myhandler.postDelayed(Threadcount,0);
 }
 };
}
```