PART - A LAB - 05 COUNTER APP

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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/btnStart"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout marginEnd="144dp"
    android:layout marginBottom="269dp"
    android:text="@string/start"
    android:textSize="25sp"
    android:textStyle="bold"
    android:onClick="startCounting"
    />
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout_marginEnd="71dp"
    android:layout marginBottom="483dp"
    android:text="@string/counter application"
    android:textColor="@color/black"
    android:textSize="30sp"
    android:textStyle="bold"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
    android:id="@+id/txtCounter"
    android:layout width="332dp"
    android:layout height="63dp"
    android:layout_alignParentEnd="true"
    android:layout alignParentBottom="true"
```

```
android:layout_marginEnd="39dp"
    android:layout_marginBottom="375dp"
    android:ems="10"
    android:hint="@string/count_value"
    android:inputType="textPersonName"
    android:textAlignment="center"
    android:textColorHint="#0004FF"
    android:textSize="35sp" />
  <Button
    android:id="@+id/btnStop"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout alignParentBottom="true"
    android:layout_marginEnd="151dp"
    android:layout_marginBottom="177dp"
    android:text="@string/stop"
    android:textSize="25sp"
    android:textStyle="bold"
    android:onClick="stopCounting"
    />
</RelativeLayout>
MainActivity.java
package com.counterapp;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
       TextView txtView;
       int count = 0;
       Handler handler = new Handler();
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity_main);
              txtView = findViewById(R.id.txtCounter);
       }
       public void startCounting(View view) {
```

```
count = 0;
handler.postDelayed(countThread, 500);
}

private Runnable countThread = new Runnable() {
     @Override
     public void run() {
          txtView.setText(""+count);
          count++;
          handler.postDelayed(countThread, 500);
     }
};

public void stopCounting(View view) {
     handler.removeCallbacks(countThread);
}
```

}