Experiment No:		
Title of the Experiment:	 	
<del> </del>	 	
Design:		

```
Activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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:background="#F44336"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:background="#CDDC39"
        android:text="COUNTER APPLICATION"
        android:textColor="#00796B"
        android:textSize="34sp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.47"
        app:layout_constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout_constraintVertical bias="0.049" />
    <TextView
        android:id="@+id/countvalue"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:background="#03A9F4"
        android:text="0"
        android:textColor="#004D40"
        android:textSize="34sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.349" />
    <But.ton
        android:id="@+id/start"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text="START"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.498"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical bias="0.627" />
    <Button
        android:id="@+id/stop"
        android:layout width="wrap content"
        android:layout height="wrap_content"
        android:text="STOP"
        android:textSize="24sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.784" />
</androidx.constraintlayout.widget.ConstraintLayout>
package com.example.counterapp;
```

```
MainActivity.java
package com.example.counterapp;
import androidx.appcompat.app.AppCompatActivity;
import android.widget.Button;
import android.widget.TextView;
import android.view.View;
import android.os. Handler;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
   Button btnstart, btnstop;
    TextView txtcounter;
    int i=1;
    Handler customHandler=new Handler();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        btnstart=findViewById(R.id.start);
        btnstop=findViewById(R.id.stop);
        txtcounter=findViewById(R.id.countvalue);
        btnstart.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                customHandler.postDelayed(updateTimerThread, 0);
        });
        btnstop.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                customHandler.removeCallbacks(updateTimerThread);
        });
    private final Runnable updateTimerThread=new Runnable() {
        @Override
        public void run() {
            txtcounter.setText(""+i);
            customHandler.postDelayed(this,5000);
            i++;
        }
   } ;
}
```





