**Program5**

**Activitymain.xml**

<?xmlversion="1.0"encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayoutxmlns:android="http://schema

s.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/resauto"xmlns:tools="http://schemas.android.com/tools"andro

id:layout\_width="match\_parent"android:layout\_height="

match\_parent"tools:context=".MainActivity">

<TextViewandroid:id="@+id/counter\_va

lue"android:layout\_width="wrap\_cont

ent"android:layout\_height="wrap\_cont

ent"android:gravity="center"android:te

xt="Counter

Value"android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"app:layout\_constraintEnd

\_toEndOf="parent"app:layout\_constraintHorizontal\_bias="0.427"app:layout\_

constraintStart\_toStartOf="parent"app:layout\_constraintTop\_toTopOf="pare

nt"app:layout\_constraintVertical\_bias="0.269"/>

<Button

android:id="@+id/start\_counter"android:layout\_width=

"wrap\_content"

android:layout\_height="wrap\_content"android:layout\_

marginTop="8dp"android:layout\_marginBottom="8dp"

android:text="START"app:layout\_constraintBottom\_to

BottomOf="parent"app:layout\_constraintEnd\_toEndOf=

"parent"app:layout\_constraintHorizontal\_bias="0.43"ap

p:layout\_constraintStart\_toStartOf="parent"app:layout\_

constraintTop\_toTopOf="parent"app:layout\_constraint

Vertical\_bias="0.433"/>

<Button

android:id="@+id/stop\_counter"android:layout\_width=

"wrap\_content"android:layout\_height="wrap\_content"a

ndroid:layout\_marginTop="8dp"android:layout\_margin

Bottom="8dp"android:text="STOP"app:layout\_constrai

ntBottom\_toBottomOf="parent"app:layout\_constraintEn

d\_toEndOf="parent"app:layout\_constraintHorizontal\_bi

as="0.43"app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"app:layout

\_constraintVertical\_bias="0.575"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**KOTLIN CODE**

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import android.os.CountDownTimer

import android.widget.Button

import android.widget.TextView

class MainActivity : AppCompatActivity() {

private lateinit var counterValue: TextView

private lateinit var startCounter: Button

private lateinit var stopCounter: Button

val timer = MyCounter(10000000, 1000)

var countervalue: Int = 0

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_main)

counterValue = findViewById(R.id.txt\_value)

startCounter = findViewById(R.id.btn\_start)

startCounter.setOnClickListener {

timer.start()

startCounter.isEnabled = false

}

stopCounter = findViewById(R.id.btn\_stop)

stopCounter.setOnClickListener {

timer.cancel()

startCounter.isEnabled = true

}

}

inner class MyCounter(millisInfuture: Long, countDownInterval: Long) :

CountDownTimer(millisInfuture, countDownInterval) {

override fun onFinish() {

}

override fun onTick(millisUntilFinished: Long) {

countervalue++

counterValue.text = (countervalue).toString()

}

}

}