**Assignment 4 :**

**Code :**

* activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp"

android:background="#F5F5F5">

<TextView

android:layout\_marginTop="30dp"

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:background="#E3F2FD"

android:text="Hello! Click the buttons below."

android:textSize="18sp"

android:textColor="#424242"

android:padding="16dp"

android:gravity="center"

android:layout\_gravity="center"

android:layout\_marginBottom="24dp" />

<Button

android:id="@+id/button1"

android:layout\_gravity="center"

android:layout\_width="357dp"

android:layout\_height="59dp"

android:layout\_marginBottom="12dp"

android:backgroundTint="#64B5F6"

android:text="Increment Counter"

android:textColor="#FFFFFF"

android:textSize="20sp" />

<Button

android:id="@+id/button2"

android:layout\_gravity="center"

android:layout\_width="357dp"

android:layout\_height="59dp"

android:backgroundTint="#4CAF50"

android:text="Change Height"

android:textColor="#FFFFFF"

android:textSize="20sp"

android:layout\_marginBottom="12dp" />

<Button

android:id="@+id/button3"

android:layout\_gravity="center"

android:layout\_width="357dp"

android:layout\_height="59dp"

android:backgroundTint="#FF9800"

android:text="Center Text"

android:textColor="#FFFFFF"

android:textSize="20sp" />

</LinearLayout>

* MainActivity.kt

package com.example.assignment4

import android.os.Bundle

import android.view.Gravity

import android.widget.Button

import android.widget.TextView

import androidx.activity.enableEdgeToEdge

import androidx.appcompat.app.AppCompatActivity

import androidx.core.view.ViewCompat

import androidx.core.view.WindowInsetsCompat

class MainActivity : AppCompatActivity() {

private var counter = 0

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_main)

val textView: TextView = findViewById(R.id.textView)

val button1: Button = findViewById(R.id.button1)

val button2: Button = findViewById(R.id.button2)

val button3: Button = findViewById(R.id.button3)

// Increment Counter and Update Text

button1.setOnClickListener {

counter++

textView.text = "Counter: $counter"

}

// Change Height of TextView

button2.setOnClickListener {

textView.layoutParams.height = 300

textView.requestLayout()

}

// Center Text in TextView

button3.setOnClickListener {

textView.gravity = Gravity.CENTER

}

}

}

**OUTPUT :**

