**Week 2: Develop an application that uses GUI components to display a “Hello World!” message and change its color and font size**

# acƟvity\_main.xml

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

<androidx.constraintlayout.widget.ConstraintLayout 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:id="@+id/main" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity">

<TextView android:id="@+id/textView"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Hello World!" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" />

<BuƩon android:id="@+id/button"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Change font size" app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.175" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.698" />

<BuƩon android:id="@+id/button2"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Change color" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.837" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.698" />

</androidx.constraintlayout.widget.ConstraintLayout>

# MainAcƟvity.java

package com.example.week2;

import android.os.Bundle; import android.view.View; import android.widget.Button; import android.widget.TextView; import android.graphics.Color;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity { TextView t;

Button b1, b2;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.*activity\_main*);

t = ﬁndViewById(R.id.*textView*); b1 = ﬁndViewById(R.id.*button*); b2= ﬁndViewById(R.id.*button2*);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { t.setTextSize(20);

}

});

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { t.setTextColor(Color.*rgb*(150, 0, 70));

}

});

}

}