Ex. No. : 01 Date :

Register No. : Name :

<div align="center">

GUI Components

</div>

Aim

       Develop an application to change the font and color of the text and display toast message when the user presses the button.

Procedure

     Step 1: Create a New Project
     Step 2: Design the UI : Open res/layout/activity_main.xml
     Step 3:Add a Custom Font

- Right-click on the res folder → New → Android Resource Directory

- Set Resource type to font, and click OK

- Download a .ttf font (e.g., roboto_bold.ttf)

- Copy and paste it into the res/font/ folder

     Step 4: Kotlin Code (MainActivity.kt) : Open MainActivity.kt
     Step 5: Run the App

AndroidManifest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools">

  <application
    android:allowBackup="true"
    android:dataExtractionRules="@xml/data_extraction_rules"
    android:fullBackupContent="@xml/backup_rules"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/Theme.EX1"
    tools:targetApi="31">
    <activity
      android:name=".MainActivity"
      android:exported="true">
      <intent-filter>
```

```xml
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:padding="24dp"
    android:gravity="center"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/textView"
        android:text="Hello, World!"
        android:textSize="24sp"
        android:layout_marginBottom="24dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

    <Button
        android:id="@+id/changeButton"
        android:text="Change Font , Color"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

</LinearLayout>
```

MainActivity.kt

```kotlin
package com.example.ex1

import android.graphics.Color
import android.graphics.Typeface
import android.os.Bundle
import android.widget.Button
import android.widget.TextView
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {
```

```
    private lateinit var textView: TextView
    private lateinit var changeButton: Button

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        textView = findViewById(R.id.textView)
        changeButton = findViewById(R.id.changeButton)

        changeButton.setOnClickListener {
            // Change font style (bold italic)
            textView.setTypeface(textView.typeface, Typeface.BOLD_ITALIC)

            // Change text color (you can use any color you like)
            textView.setTextColor(Color.parseColor("#FF5722")) // deep orange

            // Show toast message
            Toast.makeText(this, "Font and color changed!", Toast.LENGTH_SHORT).show()
        }
    }
}
```
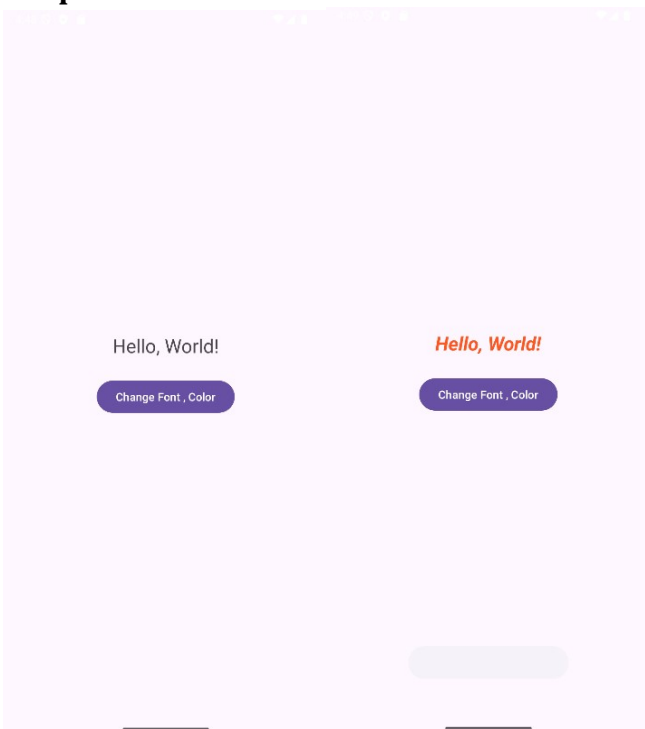
Output

Result

The Application developed using Android Studio was done.