1. Android Application that uses GUI components, Font and Colors

Aim:

        To develop a Simple Android Application that uses GUI components, Font and Colors.

Procedure:

Creating a New project:

* Open Android Stdio and then click on **File -> New -> New project.**
* Then type the Application name as “**ex.no.1″** and click **Next.**
* Then select the **Minimum SDK** as shown below and click **Next**.
* Then select the **Empty Activity**and click **Next.**
* Finally click F**inish**.
* It will take some time to build and load the project.
* After completion it will look as given below.

Designing layout for the Android Application:

* Click on **app -> res -> layout -> activity\_main.xml.**
* Now click on **Text** as shown below.
* Then delete the code which is there and type the code as given below.

**Code for Activity\_main.xml:**

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

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

android:orientation="vertical"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="30dp"

android:gravity="center"

android:text="Hello World!"

android:textSize="25sp"

android:textStyle="bold" />

<Button

android:id="@+id/button1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="20dp"

android:gravity="center"

android:text="Change font size"

android:textSize="25sp" />

<Button

android:id="@+id/button2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="20dp"

android:gravity="center"

android:text="Change color"

android:textSize="25sp" />

</LinearLayout>

* Now click on Design and your application will look as given below.
* So now the designing part is completed.

Java Coding for the Android Application:

* Click on **app -> java -> com.example.exno1 -> MainActivity.**
* Then delete the code which is there and type the code as given below.

**Code for MainActivity.java:**

package com.example.exno1;

import android.graphics.Color;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity

{

int ch=1;

float font=30;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

final TextView t= (TextView) findViewById(R.id.textView);

Button b1= (Button) findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

t.setTextSize(font);

font = font + 5;

if (font == 50)

font = 30;

}

});

Button b2= (Button) findViewById(R.id.button2);

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

switch (ch) {

case 1:

t.setTextColor(Color.RED);

break;

case 2:

t.setTextColor(Color.GREEN);

break;

case 3:

t.setTextColor(Color.BLUE);

break;

case 4:

t.setTextColor(Color.CYAN);

break;

case 5:

t.setTextColor(Color.YELLOW);

break;

case 6:

t.setTextColor(Color.MAGENTA);

break;

}

ch++;

if (ch == 7)

ch = 1;

}

});

}

}

* So now the Coding part is also completed.
* Now run the application to see the output.

Output:

Result:

              Thus a Simple Android Application that uses GUI components, Font and Colors is developed and executed successfully.