

**Ex. No:**  
**01**

## **Develop an application that uses GUI components, Font and**

**Aim:**

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

### **Procedure:**

#### **Creating a New project:**

Open Android Studio and then click on **File -> New -> New project**.

Then type the Application name as **“exno1”** and click Next.

Then **select the Minimum SDK** as shown below and click Next.

Then select the **Empty Activity** and click Next.

Finally click **Finish**.

It will take some time to build and load the project.

#### **Designing layout for the Android Application:**

Click on **app -> res -> layout -> activity\_main.xml**.

Now click on Text.

Now click on Design and your application layout will be displayed.

So now the designing part is completed.

Now run the application.

#### **Java Coding for the Android Application:**

Click on **app -> java -> com.example.exno1 -> MainActivity**.

### **PROGRAM**

#### **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>

### **Code for MainActivity.java:**

```

package com.example.exnol;
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;
import androidx.appcompat.app.AppCompatActivity;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;
    }
});
}
}

```

## Output:

