# EXERCISE 1 – ANDROID APPLICATION THAT USES GUI COMPONENTS, FONT AND COLORS

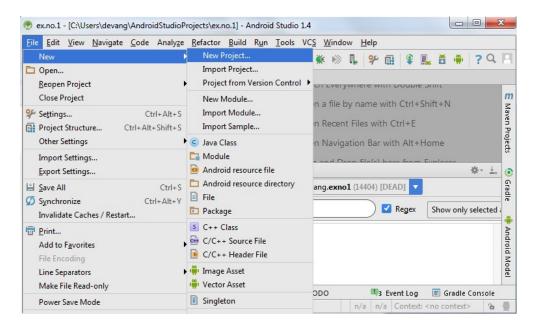
#### Aim:

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

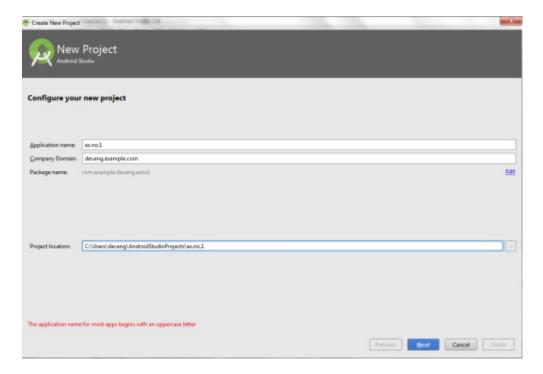
#### **Procedure:**

## Creating a New project:

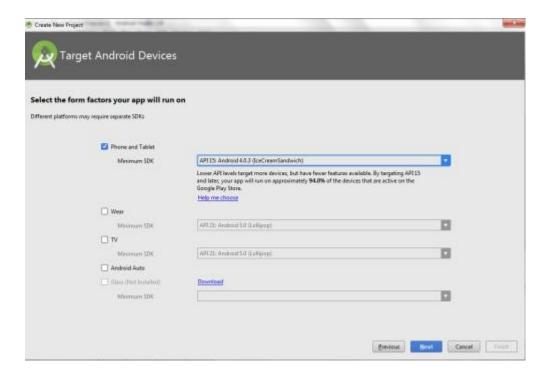
Open Android Studio and then click on File -> New -> New project.



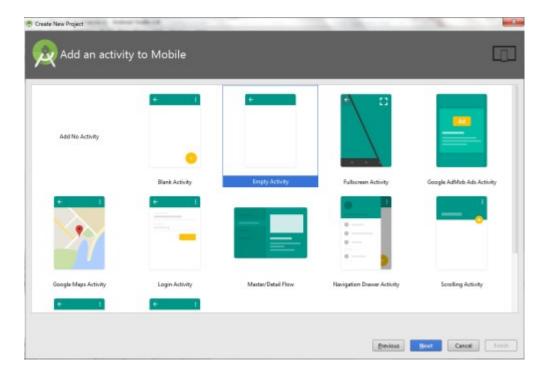
• Then type the Application name as "ex.no.1" and click Next.



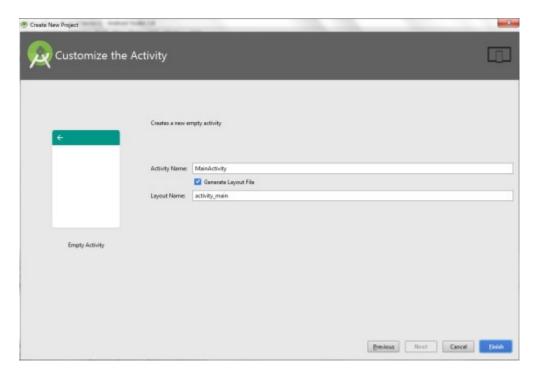
• Then select the **Minimum SDK** as shown below and click **Next**.



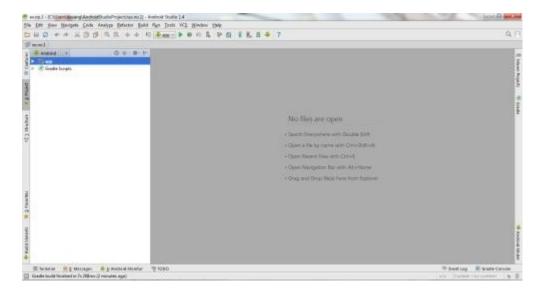
• Then select the Empty Activity and click Next.



• Finally click Finish.

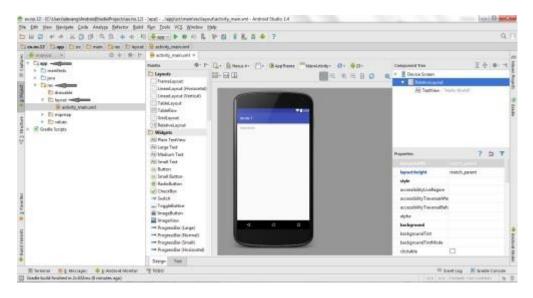


- It will take some time to build and load the project.
- After completion it will look as given below.

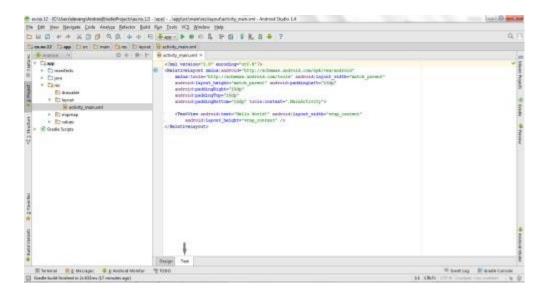


## **Designing layout for the Android Application:**

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



• Now click on **Text** as shown below.

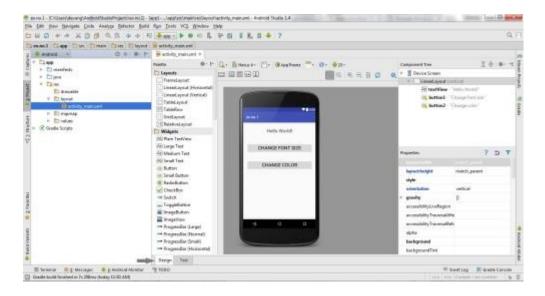


• Then delete the code which is there and type the code as given below.

## **Code for Activity main.xml:**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    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"
        \verb"android:gravity="center""
        android:text="Change color"
        android:textSize="25sp" />
</LinearLayout>
```

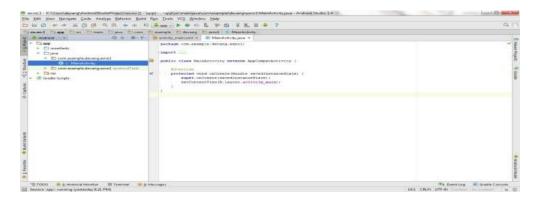
• Now click on Design and your application will look as given below.



• 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.exnol;
import

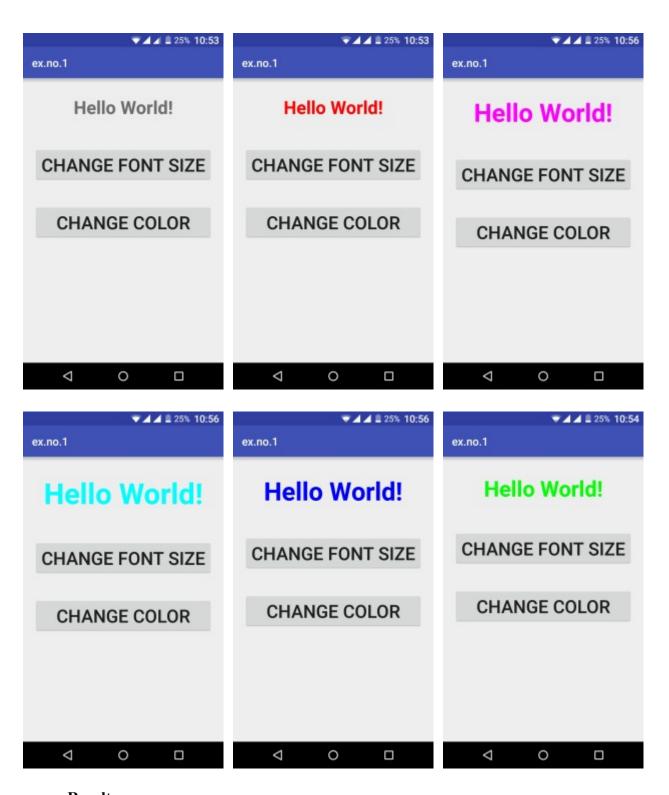
android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import
android.widget.TextView;

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.

Execute the above exe	ercise of fo	ont size	and c	olor in	Andr	oid stu	dio and	show	the ex	act GUI
output? [2]										
TASK 1.1										
In the above example button?	e, Change	the font	styles	s of th	e text	"Hello	World	l" by	adding	another





### **RESOURCES:**

https://www.codingconnect.net/mobile-application-development-

lab/ https://www.javatpoint.com/android-tutorial

https://www.tutorialspoint.com/android

https://developer.android.com/guide

Https://developer.Android.com/training/basics/firstapp/creating-

project

Https://www.raywenderlich.com/120177/beginning-Android-development-

tutorial- installingAndroid-studio

https://www.youtube.com/playlist?list=PLS1QulWo1RIbb1cYyzZpLFCKvdYV

yJ-EHttps://www.udemy.com/java-tutorial/

Https://www.w3schools.com/xml/

Http://www.Androidguys.co

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