Ex.No: 1 Date :	**Develop an application that uses GUI Components, Fonts and Colors**

AIM:

To develop an application that uses GUI Components, Fonts and Colors.

PROCEDURE:

1. Open Eclipse IDE.
2. Create the project Ex_No_1.
3. Go to package explorer in the left-hand side. Select the project Ex_No_1.
4. Go to res folder and select layout. Double click the activity_main.xml file.
5. Now you can see the Graphical layout window.
6. Drag and drop the following components:
    a. One Text View with text MAD Lab
    b. Three Buttons with labeled as Change Font Size, Change Font Color and Change Font Style
7. Again, go to package explorer in the left-hand side. Select the project Ex_No_1.
8. Go to src folder. Double click the MainActivity.java file.
9. In java file write the activities done by the application such as, actions of buttons.
10. Finally run the android application.

PROGRAMS:

activity_main.xml:

```
<RelativeLayout                    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools" an-
    droid:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.ex_no_1.MainActivity" >

    <TextView android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="53dp"
        android:text="MAD Lab"
        android:textAppearance="?android:attr/textAppearanceLarge"
        tools:ignore="HardcodedText" />
```

```
    <Button android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
```

```
        android:layout_alignParentRig
        ht="true"
        android:layout_below="@+id/te
        xtView1"
        android:layout_marginTop="64d
        p"  android:text="Change  Font
        Size"
        tools:ignore="HardcodedText"
        />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_c
        ontent"
        android:layout_height="wrap_
        content"
        android:layout_alignParentLe
        ft="true"
        android:layout_alignParentRi
        ght="true"
        android:layout_below="@+id/b
        utton1"  android:text="Change
        Font                  Color"
        tools:ignore="HardcodedText"
        />

    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_c
        ontent"
        android:layout_height="wrap_
        content"
        android:layout_alignParentLe
        ft="true"
        android:layout_alignParentRi
        ght="true"
        android:layout_below="@+id/b
        utton2"  android:text="Change
        Font                  Style"
        tools:ignore="HardcodedText"
        />

</RelativeLayout
>
```

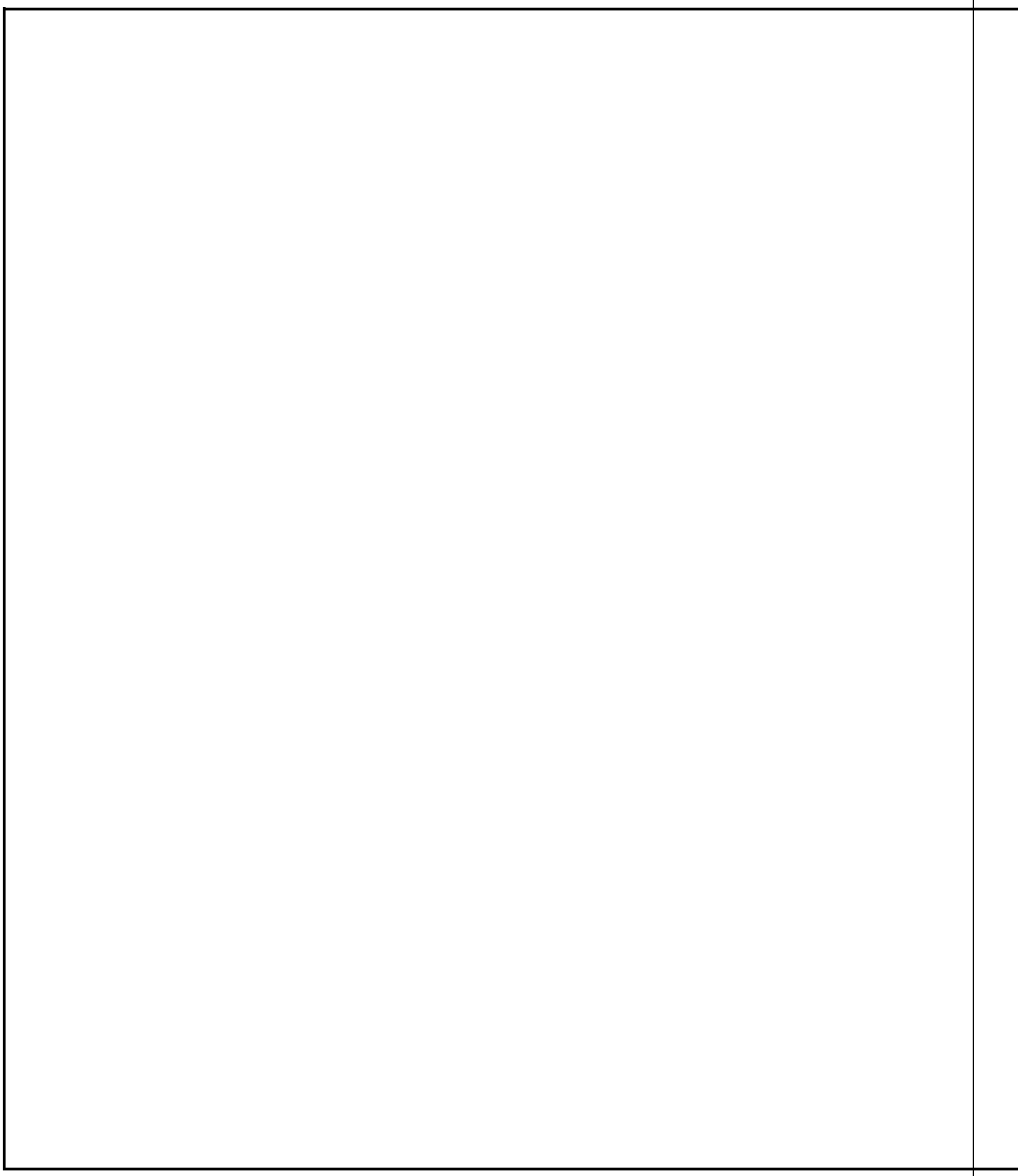
MainActivity.java:

```
package com.example.ex_no_1;
```

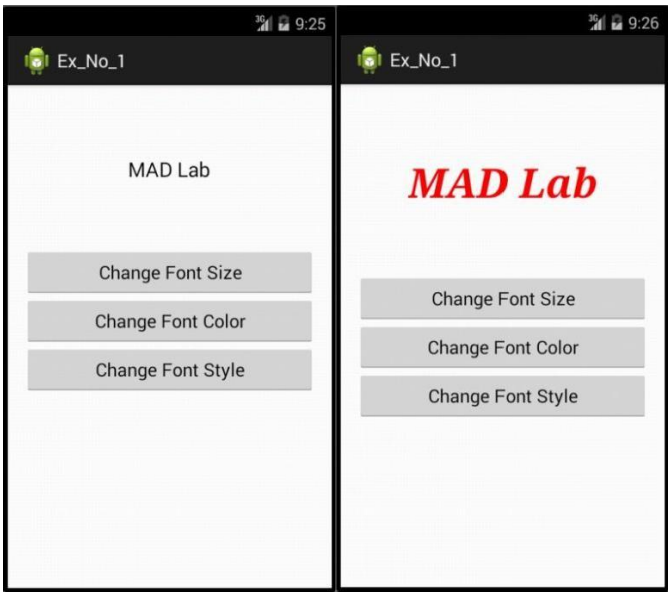
```
import
android.support.v7.app.ActionBarActi
vity; import android.graphics.Color;
import     android.graphics.Typeface;
import    android.os.Bundle;    import
android.view.View;
import
android.view.View.OnClickList
ener; import
android.widget.Button; import
android.widget.TextView;
public    class    MainActivity    extends
       ActionBarActivity { float font = 20;
       int  count  =  1;  Button  b1,b2,b3;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity_main); final
              TextView t1 = (TextView)
              findViewById(R.id.textView1);
              t1.setTextSize(15);
              b1            =            (Button)
              findViewById(R.id.button1);
              b1.setOnClickListener(new
              OnClickListener()  {  public  void
              onClick(View        view)        {
              t1.setTextSize(font); font = font
              + 5; if (font == 50)
```

```
                        font = 20;
        }
});
b2          =          (Button)          findViewById(R.id.button2);
b2.setOnClickListener(new View.OnClickListener() { public void
onClick(View    view)    {    switch    (count)    {    case    1:
t1.setTextColor(Color.parseColor("#7f00ff"));  break;  case  2:
t1.setTextColor(Color.parseColor("#00FF00"));  break;  case  3:
t1.setTextColor(Color.parseColor("#FF0000"));  break;  case  4:
t1.setTextColor(Color.parseColor("#0000FF")); break;
                } count++; if
                (count == 5)
                count = 1;
        }       });       b3       =       (Button)
findViewById(R.id.button3);
b3.setOnClickListener(new OnClickListener() {
        @Override
        public void onClick(View view) { switch (count) { case 1:
                t1.setTypeface(Typeface.DEFAULT, Typeface.ITALIC); break;
                case 2: t1.setTypeface(Typeface.MONOSPACE,
                Typeface.NORMAL); break; case 3:
                t1.setTypeface(Typeface.SANS_SERIF,  Typeface.BOLD);
                break; case 4: t1.setTypeface(Typeface.SERIF,
                Typeface.BOLD_ITALIC); break;
                } count++; if
                (count == 5)
                count = 1;
        }
});
```

```
}       }
```



OUTPUT:


9:25
Ex_No_1
MAD Lab
Change Font Size
Change Font Color
Change Font Style
9:26
Ex_No_1
MAD Lab
Change Font Size
Change Font Color
Change Font Style

RESULT:

Thus the application that uses GUI Components, Fonts and Colors has been developed and the output was verified.