

Exp:10	Develop an application to change the font and color of the text and display toast message when the user presses the button.
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### Aim:

To develop an Android application that allows users to change the **font style**, **text color**, and display a **Toast message** when a button is pressed.

### Algorithm:

1. Start the app.
2. Show a TextView with default text.
3. Display a Button: Change Style.
4. When the button is clicked:
  - Change the font style (bold/italic/custom).
  - Change the text color (to a vibrant color).
  - Show a Toast: "Style Changed!"
5. End.

### Code:

#### MainActivity.kt:

```
package com.example.fontchanger

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

class MainActivity : AppCompatActivity() {    //
    Declare variables to track current state    private
    var currentFont = Typeface.DEFAULT
    private var currentColor = Color.BLACK

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

        // Initialize views
```

```

        val textView = findViewById<TextView>(R.id.textView)
    val btnFont = findViewById<Button>(R.id.btnFont)        val
    btnColor = findViewById<Button>(R.id.btnColor)        val
    btnToast = findViewById<Button>(R.id.btnToast)        val
    btnReset = findViewById<Button>(R.id.btnReset)

```

```

        //      Font      change      button
    btnFont.setOnClickListener {          currentFont =
    when          (textView.typeface)      {
    Typeface.SANS_SERIF      ->      Typeface.SERIF
    Typeface.SERIF -> Typeface.MONOSPACE
        else -> Typeface.SANS_SERIF
    }
    textView.typeface = currentFont
    showToast("Font changed!")
    }

```

```

        //      Color      change      button
    btnColor.setOnClickListener          {
    currentColor = when (currentColor) {
        Color.BLACK -> Color.RED
    Color.RED -> Color.BLUE          Color.BLUE
    -> Color.GREEN
        else -> Color.BLACK
    }
    textView.setTextColor(currentColor)
    showToast("Color changed!")
    }

```

```

        // Toast button
    btnToast.setOnClickListener {
        showToast("Hello from Font Changer!")
    }

```

```

        //      Reset      button
    btnReset.setOnClickListener          {
    textView.typeface      =      Typeface.DEFAULT
    textView.setTextColor(Color.BLACK)
        showToast("Reset to defaults")
    }
    }

```

```

    private fun showToast(message: String) {

```

```
        Toast.makeText(this, message, Toast.LENGTH_SHORT).show()
    }
}
```

### **Activity\_Main.xml:**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"    android:gravity="center"
    android:padding="20dp"
    android:background="#F5F5F5">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello Android!"
        android:textSize="24sp"
        android:layout_marginBottom="30dp"/>

    <Button    android:id="@+id/btnFont"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Change Font"
        android:layout_marginBottom="10dp"
        android:backgroundTint="#6200EE"
        android:textColor="#FFFFFF"/>

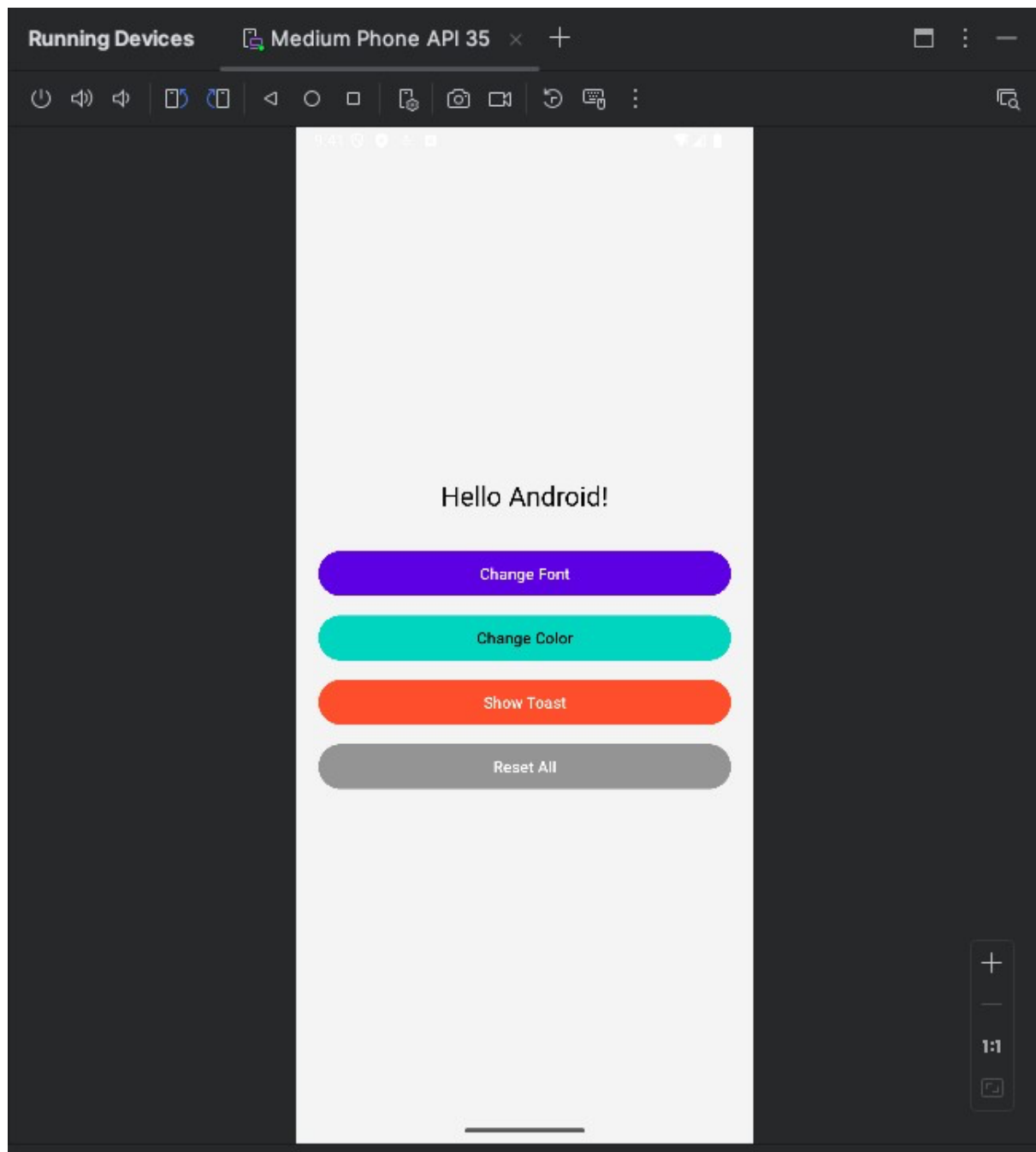
    <Button
        android:id="@+id/btnColor"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Change Color"
        android:layout_marginBottom="10dp"
        android:backgroundTint="#03DAC6"
        android:textColor="#000000"/>

    <Button
        android:id="@+id/btnToast"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```
android:text="Show Toast"
android:layout_marginBottom="10dp"
android:backgroundTint="#FF5722"
    android:textColor="#FFFFFF"/>
```

```
<Button
android:id="@+id/btnReset"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Reset All"
android:backgroundTint="#9E9E9E"
android:textColor="#FFFFFF"/>
</LinearLayout>
```

**Output:**



**Result:**

Thus the give program is executed successfully.