

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"/>
```

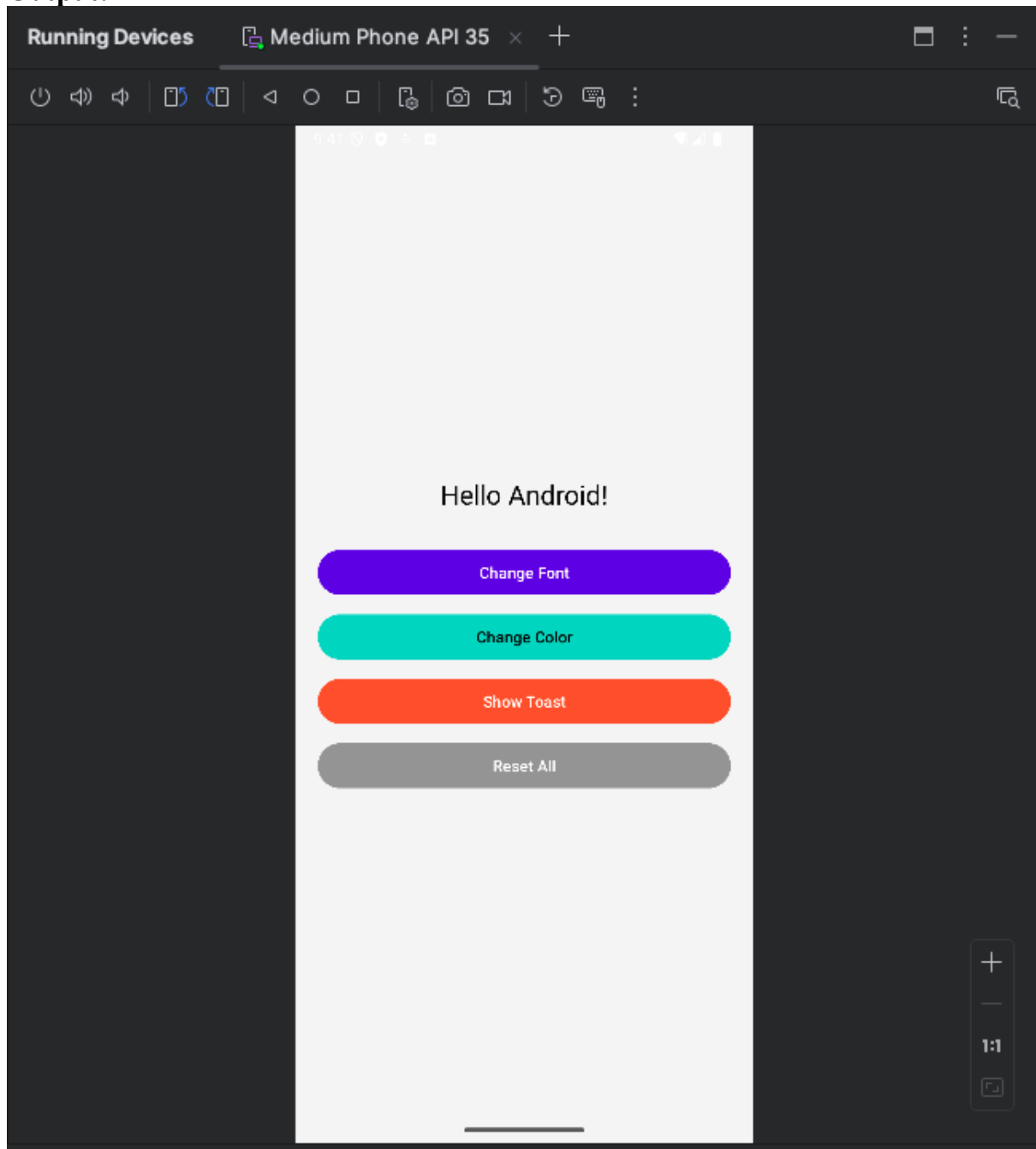
```
<Button  
    android:id="@+id/btnColor"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Change Color"  
    android:layout_marginBottom="10dp"  
    android:backgroundTint="#03DAC6"  
    android:textColor="#000000"/>
```

```
<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.