

EXP 10: FONT COLOR CHANGER

Develop an application to change the font and color of the text and display toast message when the user presses the button.

AIM:

To develop an application to change the font and color of the text and display toast message.

ALGORITHM:

- Set up the TextView, Spinner for font selection, and buttons for applying styles and choosing color.
- Load the font options into the Spinner.
- When clicked, retrieve the selected font from the Spinner.
- Change the TextView font to the chosen font.
- Open a color picker dialog when clicked.
- Let the user select a color and apply it to the TextView.
- Display a confirmation message after applying the styles.

SOURCE CODE:

XML Layout (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:padding="32dp"
    android:gravity="center">

    <!-- TextView to display the styled text -->
    <TextView
        android:id="@+id/styledText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, Style Me!"
        android:textSize="24sp"
        android:textColor="#000000"
        android:layout_marginBottom="30dp"/>

    <!-- Spinner for Font Selection -->
    <Spinner
        android:id="@+id/fontSpinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="30dp"/>

    <!-- Button to Apply Style -->
    <Button
        android:id="@+id/applyButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Apply Style"
        android:layout_marginBottom="30dp"/>

    <!-- Button to open the Color Picker Dialog -->
    <Button
        android:id="@+id/colorButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select Text Color"/>

</LinearLayout>
```

Java Code (MainActivity.java):

```
package com.example.textstylerapp;

import
android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
import
android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import com.flask.colorpicker.OnColorSelectedListener;
import com.flask.colorpicker.ColorPickerDialog;

public class MainActivity extends AppCompatActivity {

    private TextView styledText;
    private Spinner fontSpinner;
    private Button applyButton, colorButton;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Initialize views
        styledText = findViewById(R.id.styledText);
        fontSpinner = findViewById(R.id.fontSpinner);
        applyButton = findViewById(R.id.applyButton);
        colorButton = findViewById(R.id.colorButton);

        // Array for font options
        final String[] fonts = {"Poppins", "Courier New", "Georgia", "Comic Sans MS",
"Arial"};

        // Create an ArrayAdapter for the spinner
        ArrayAdapter<String> fontAdapter = new ArrayAdapter<>(this,
android.R.layout.simple_spinner_item, fonts);

fontAdapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
fontSpinner.setAdapter(fontAdapter);

        // Set button listener to apply style
```

```

        applyButton.setOnClickListener(v -> applyStyle());

        // Set button listener to show color picker
        colorButton.setOnClickListener(v -> showColorPicker());
    }

    // Apply the selected font and color to the TextView
    private void applyStyle() {
        // Get the selected font from the spinner
        String selectedFont = fontSpinner.getSelectedItem().toString();

        // Apply the selected font
        styledText.setTypeface(Typeface.create(selectedFont,
        Typeface.NORMAL));

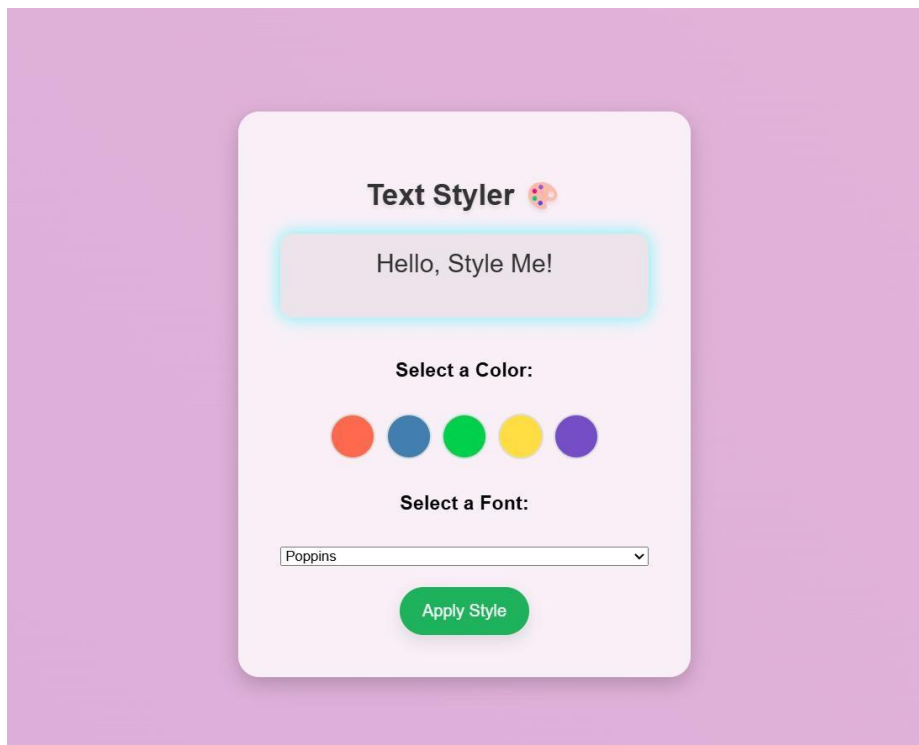
        // Show a Toast message
        Toast.makeText(MainActivity.this, "Style Applied Successfully!",
        Toast.LENGTH_SHORT).show();
    }

    // Show the color picker dialog
    private void showColorPicker() {
        ColorPickerDialog.newBuilder()
            .setDialogType(ColorPickerDialog.TYPE_PRESETS)
            .setAllowCustom(true)
            .setShowAlphaSlider(true)
            .setColor(Color.BLACK)
            .setPresets(new int[] { Color.RED, Color.GREEN, Color.BLUE, Color.YELLOW,
        Color.CYAN })
            .setCallback(new OnColorSelectedListener() {
                @Override
                public void onColorSelected(int color) {
                    // Change the text color to the selected color
                    styledText.setTextColor(color);
                }
            })
            .setAllowCustom(true)
            .setShowAlphaSlider(true)
            .setPresets(new int[] { Color.RED, Color.GREEN, Color.BLUE })
            .setColor(Color.BLACK)
            .setDialogId(0)
            .setAllowCustom(true)
            .setShowAlphaSlider(true)
            .setShowColor(true)
            .setColor(Color.BLACK)
            .setPresets(new int[] { Color.RED, Color.GREEN, Color.BLUE })
    }

```

```
        .build()  
        .show(this);  
    }  
}
```

OUTPUT:



RESULT:

Thus, the program was executed successfully.