

Practical No.: 05

Aim: Design a Menu Tree To Change Background Color.**Source Code:****a. activity_main.xml .****Code:**

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/reLayout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#fff"
    android:padding="16dp"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:text="Long Press Me!!"
        android:textColor="#000"
        android:textSize="25sp"
        android:textStyle="bold|italic"/>

</RelativeLayout>
```

Source Code:**b. MainActivity.kt .****Code:**

```
package com.example.menu

import android.graphics.Color
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.ContextMenu
import android.view.MenuItem
import android.view.View
import android.widget.RelativeLayout
import android.widget.TextView
```

```
class MainActivity : AppCompatActivity() {
    lateinit var textView: TextView
    lateinit var relativeLayout: RelativeLayout

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

        textView = findViewById(R.id.textView)
        relativeLayout = findViewById(R.id.relLayout)

        registerForContextMenu(textView)
    }

    override fun onCreateContextMenu(
        menu: ContextMenu?,
        v: View?,
        menuInfo: ContextMenu.ContextMenuInfo?
    ) {
        super.onCreateContextMenu(menu, v, menuInfo)
        menu!!!!!!?.setHeaderTitle("Choose a color")

        if (v != null) {
            menu.add(0, v.id, 0, "Yellow")
        }
        if (v != null) {
            menu.add(0, v.id, 0, "Gray")
        }
        if (v != null) {
            menu.add(0, v.id, 0, "Cyan")
        }
    }

    override fun onContextItemSelected(item: MenuItem): Boolean {
        if (item.title === "Yellow") {
            relativeLayout.setBackgroundColor(Color.YELLOW)
        } else if (item.title === "Gray") {
            relativeLayout.setBackgroundColor(Color.GRAY)
        } else if (item.title === "Cyan") {
            relativeLayout.setBackgroundColor(Color.CYAN)
        }
        return true
    }
}
```

Output:

