PRACTICAL-6.2

AIM:

Create an application that will change the color of the screen based on selected options from the menu.

PROGRAM CODE:

- **Main_activity.xml:**

```xml
<?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/layoutCons"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#CFA3D6"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:background="#FFEB3B"
        android:text="@string/_19dcs098_parth_patel"
        android:textColor="#FF9800"
        android:textSize="25sp"
        tools:ignore="TextContrastCheck"                                      />
</RelativeLayout>
```

- **Menu_main.xml:**

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu 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"
    tools:context=".MainActivity">
    <item
        android:id="@+id/white"
        android:title="@string/white_color" />
    <item android:id="@+id/pink"
        android:title="@string/pink_color">
        <menu>
            <item android:id="@+id/black"
                android:title="@string/black_color"/>
            <item android:id="@+id/red"
                android:title="@string/red_color"/>
        </menu>
    </item>
    <item android:id="@+id/green"
        android:title="@string/green_color"/>
    <item android:id="@+id/yellow"
        android:title="@string/yellow_color"/>
</menu>
```

- **Strings.xml:**

```xml
<resources>
    <string name="app_name">Menu</string>
    <string name="_19dcs098_parth_patel">19DCS098-PARTH PATEL</string>
    <string name="white_color">WHITE COLOR</string>
    <string name="pink_color">PINK COLOR</string>
    <string name="black_color">BLACK COLOR</string>
    <string name="red_color">RED COLOR</string>
    <string name="green_color">GREEN COLOR</string>
    <string name="yellow_color">YELLOW COLOR</string>

</resources>
```

- **MainActivity.java:**

```java
package com.parthnpatel.menu;

import androidx.appcompat.app.AppCompatActivity;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.RelativeLayout;
import android.widget.Toast;


public class MainActivity extends AppCompatActivity {

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

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu_main, menu);
        return true;
    }
```

```java
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        RelativeLayout layoutCons = findViewById(R.id.layoutCons);
        switch (item.getItemId())
        {
            case R.id.white:
                layoutCons.setBackgroundColor(Color.parseColor("#FFFFFF"));
                Toast.makeText(getApplicationContext(), "WHITE BACKGROUND
ACTIVATED!!", Toast.LENGTH_LONG).show();
                break;
            case R.id.pink:
                layoutCons.setBackgroundColor(Color.parseColor("#FFB6C1"));
                Toast.makeText(getApplicationContext(), "PINK BACKGROUND
ACTIVATED!!", Toast.LENGTH_LONG).show();
                break;
            case R.id.black:
                layoutCons.setBackgroundColor(Color.parseColor("#000000"));
                Toast.makeText(getApplicationContext(), "BLACK BACKGROUND
ACTIVATED!!", Toast.LENGTH_LONG).show();
                break;
            case R.id.red:
                layoutCons.setBackgroundColor(Color.parseColor("#FF0000"));
                Toast.makeText(getApplicationContext(), "RED BACKGROUND
ACTIVATED!!", Toast.LENGTH_LONG).show();
                break;
            case R.id.yellow:
                layoutCons.setBackgroundColor(Color.parseColor("#FFEB3B"));
                Toast.makeText(getApplicationContext(), "YELLOW BACKGROUND
ACTIVATED!!", Toast.LENGTH_LONG).show();
                break;

            case R.id.green:
                layoutCons.setBackgroundColor(Color.parseColor("#00FF00"));
                Toast.makeText(getApplicationContext(), "GREEN BACKGROUND
```
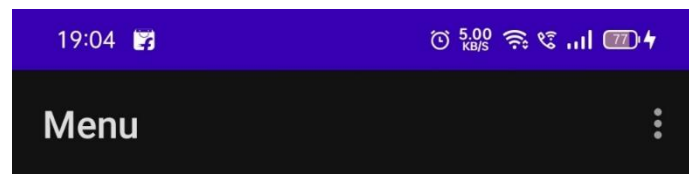
```
ACTIVATED!!", Toast.LENGTH_LONG).show();
    }
    return super.onOptionsItemSelected(item);
  }
}
```

OUTPUT: