**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 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 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:**

<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:**

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;  
 }  
 @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:**













