Practical 4

**filename:activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:id="@+id/root\_layout"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="16dp">

<TextView

android:id="@+id/color\_text"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Select a color from the menu"

android:textSize="18sp"

android:layout\_centerInParent="true" />

</RelativeLayout>

**filename:options\_menu.xml**

<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item android:id="@+id/color\_red" android:title="Red" />

<item android:id="@+id/color\_green" android:title="Green" />

<item android:id="@+id/color\_blue" android:title="Blue" />

<item android:id="@+id/color\_yellow" android:title="Yellow" />

</menu>

**filename:MainActivity.java**

package com.example.bgcolorchanger;

import android.graphics.Color;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuItem;

import android.widget.RelativeLayout;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

RelativeLayout rootLayout;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

rootLayout = findViewById(R.id.root\_layout);

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

getMenuInflater().inflate(R.menu.options\_menu, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

switch (item.getItemId()) {

case R.id.color\_red:

rootLayout.setBackgroundColor(Color.RED);

return true;

case R.id.color\_green:

rootLayout.setBackgroundColor(Color.GREEN);

return true;

case R.id.color\_blue:

rootLayout.setBackgroundColor(Color.BLUE);

return true;

case R.id.color\_yellow:

rootLayout.setBackgroundColor(Color.YELLOW);

return true;

default:

return super.onOptionsItemSelected(item);

}

}

}