Lab Exercise 07: Option Buttons

ActivityMain.java

```
package com.example.lab07;
import androidx.appcompat.app.AppCompatActivity;
import androidx.constraintlayout.widget.ConstraintLayout;
import android.os.Bundle;
import android.view.View;
import android.widget.RadioButton;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        RadioButton red, green, blue;
        final ConstraintLayout layout;
        red = findViewById(R.id.redButton);
        green = findViewById(R.id.greenButton);
        blue = findViewById(R.id.blueButton);
        layout = findViewById(R.id.layout);
        red.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                layout.setBackgroundResource(R.color.red);
        });
        green.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
                layout.setBackgroundResource(R.color.green);
            }
        });
        blue.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                layout.setBackgroundResource(R.color.blue);
        });
    }
}
strings.xml
<resources>
    <string name="app name">Lab07</string>
    <string name="please_select_a_color">Please select a color
    <string name="blue">Blue</string>
    <string name="green">Green</string>
    <string name="red">Red</string>
</resources>
```

activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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/layout"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap_content"
        android:fontFamily="serif"
        android:text="@string/please_select_a_color"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintHorizontal bias="0.497"
        app:layout constraintLeft toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.4" />
    < Radio Group
        android:layout width="wrap content"
        android:layout height="wrap content"
        app:layout constraintStart toStartOf="@+id/textView"
        app:layout constraintTop toBottomOf="@+id/textView">
        <RadioButton
            android:id="@+id/redButton"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:text="@string/red" />
        <RadioButton
            android:id="@+id/greenButton"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:text="@string/green" />
        <RadioButton
            android:id="@+id/blueButton"
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:text="@string/blue" />
    </RadioGroup>
</androidx.constraintlayout.widget.ConstraintLayout>
```

colors.xml

OUTPUT

