Q: 7) Create an application with three option buttons, on selecting a button colour of the screen will change.

```
package com.example.button color;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
   Button b1,b2,b3;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       b1 = findViewById(R.id.button);
       b2 = findViewById(R.id.button2);
       b3 = findViewById(R.id.button3);
       b1.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
findViewById(R.id.clr).setBackgroundColor(getResources().getColor(R.color.b)
lack));
       });
       b2.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
findViewById(R.id.clr).setBackgroundColor(getResources().getColor(R.color.p
urple 200));
           }
       });
       b3.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
hite));
       });
   }
}
<?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/clr"
   android:layout width="match parent"
```

```
android:layout height="match parent"
   android:background="#F44336"
   tools:context=".MainActivity">
   <Button
        android:id="@+id/button"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Red"
        app:layout_constraintBottom toTopOf="@+id/button2"
        app:layout_constraintEnd toStartOf="@+id/button2"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
    <Button
        android:id="@+id/button2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Blue"
        app:layout constraintBottom toTopOf="@+id/button3"
       app:layout_constraintEnd toStartOf="@+id/button3"
        app:layout_constraintHorizontal bias="0.5"
        app:layout constraintStart toEndOf="@+id/button"
        app:layout constraintTop toBottomOf="@+id/button" />
   <Button
       android:id="@+id/button3"
        android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="Green"
       app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.5"
        app:layout constraintStart toEndOf="@+id/button2"
        app:layout constraintTop toBottomOf="@+id/button2" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

