Jhed Ross Steven C. Bunagan

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Block05

Activity main

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/layout">  
  
 <RadioGroup  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:id="@+id/radioGroup\_colors">  
  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Blue"  
 android:id="@+id/radioButton\_blue"  
 android:checked="false" />  
  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Magenta"  
 android:id="@+id/radioButton\_magenta"  
 android:checked="false" />  
  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Yellow"  
 android:id="@+id/radioButton\_yellow"  
 android:checked="false" />  
 </RadioGroup>  
</RelativeLayout>

Main\_Activity

package com.example.block05;  
  
import android.content.Context;  
import android.content.SharedPreferences;  
import android.graphics.Color;  
import android.os.Bundle;  
import android.widget.RadioGroup;  
import android.widget.RelativeLayout;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 SharedPreferences preferences = getSharedPreferences("COLOR\_PREF", Context.*MODE\_PRIVATE*);  
 final SharedPreferences.Editor editor = preferences.edit();  
 final RelativeLayout layout = (RelativeLayout)findViewById(R.id.*layout*);  
  
 if (preferences.contains(("colorId")))  
 layout.setBackgroundColor(preferences.getInt("colorId", 0));  
  
 RadioGroup radioGroup\_colors = (RadioGroup) findViewById(R.id.*radioGroup\_colors*);  
 radioGroup\_colors.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {  
 @Override  
 public void onCheckedChanged(RadioGroup group, int checkedId) {  
 int colorCode = 0;  
 switch (checkedId) {  
 case R.id.*radioButton\_blue*:  
 colorCode = Color.*BLUE*;  
 break;  
 case R.id.*radioButton\_magenta*:  
 colorCode = Color.*MAGENTA*;  
 break;  
 case R.id.*radioButton\_yellow*:  
 colorCode = Color.*YELLOW*;  
 break;  
 }  
 layout.setBackgroundColor(colorCode);  
 editor.putInt("colorId", colorCode);  
 editor.commit();  
 }  
 });  
 }  
}





