**Problem Statement:- Create a simple application to change background colour on button click.**

**XML Code:-**

<?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:id="@+id/rlVar1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/black"  
 tools:context=".MainActivity">  
  
 <Button  
 android:id="@+id/btVar2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/btVar1"  
 android:layout\_alignParentStart="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginStart="37dp"  
 android:layout\_marginTop="88dp"  
 android:text="Green" />  
  
 <Button  
 android:id="@+id/btVar1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="40dp"  
 android:layout\_marginTop="91dp"  
 android:text="Red" />  
  
 <Button  
 android:id="@+id/btVar3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_centerVertical="true"  
 android:layout\_marginTop="333dp"  
 android:layout\_marginEnd="285dp"  
 android:text="Button" />  
  
</RelativeLayout>

Java Code:-

package com.example.backgroundchange;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
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*);  
  
 Button button1, button2,button3;  
 final RelativeLayout relativeLayout;  
  
 button1 = findViewById(R.id.*btVar1*);  
  
 button2 = findViewById(R.id.*btVar2*);  
  
 button3 = findViewById(R.id.*btVar3*);  
  
 relativeLayout = findViewById(R.id.*rlVar1*);  
  
 button1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 relativeLayout.setBackgroundResource(R.color.*red*);  
 }  
 });  
  
 button2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 relativeLayout.setBackgroundResource(R.color.*colorAccent*);  
 }  
 });  
  
 button3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 relativeLayout.setBackgroundResource(R.color.*blue*);  
 }  
 });  
  
  
 }  
}

O/P:-

Graphical user interface

Description automatically generated with medium confidence

Before:-

A screenshot of a phone

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After:-

A screenshot of a cell phone

Description automatically generated with medium confidenceA screenshot of a cell phone

Description automatically generated with medium confidenceA screenshot of a cell phone

Description automatically generated with medium confidence