

## Department of **Bachelor of Computer Applications**

# Android Operating System Lab File - CA 05

Subject Code: 19BCA4C03L Class: II<sup>nd</sup> Year II<sup>nd</sup> Semester

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#### Question 01:

</RelativeLayout>

Program to change button and layout color, when clicked.

#### Code:

```
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout</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="0+id/rlVar1"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
            <TextView
                         android:id="@+id/tvVar1"
                        android: id="W+id/tvVar1"
android: layout_width="wrap_content"
android: layout_height="wrap_content"
android: layout_centerHorizontal="true"
android: layout_marginTop="240dp"
android: text="Hello"
android: textSize="30dp"
android: textSize="30dp"
                         android:textStyle="bold" />
            <Button
                        android:id="@+id/button"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@+id/tvVar1"
android:layout_marginTop="12dp"
android:text="Click here to change button background color!"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintTop_toTopOf="parent"
tools:ignore="HardcodedText" />
            <LinearLayout</pre>
                        android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="a+id/tvVar1"
android:layout_centerInParent="true"
android:layout_marginTop="60dp"
android:orientation="horizontal"
android:padding="10dp">
                         <Button
                        android:id="0+id/btVar2"
android:layout_width="150dp"
android:layout_height="wrap_content"
android:padding="20dp"
android:text="Warm"
                         android:textSize="25dp"
tools:layout_editor_absoluteX="268dp"
tools:layout_editor_absoluteY="421dp" />
            <Button
                        android:id="0+id/btVar1"
android:layout_width="150dp"
android:layout_height="wrap_content"
android:padding="20dp"
android:text="Cool"
                         android:text= coot
android:textSize="25dp"
tools:layout_editor_absoluteX="76dp"
tools:layout_editor_absoluteY="421dp" />
            </LinearLayout>
```

```
package com.example.myapplication6_1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RelativeLayout;
public class MainActivity extends AppCompatActivity {
     protected void onCreate(Bundle savedInstanceState) {
           super.onCreate(savedInstanceState);
           setContentView(R.layout.activity_main);
          Button button1, button2;
final RelativeLayout relativeLayout;
           button1 = findViewById(R.id.btVar1);
          button2 = findViewById(R.id.btVar2);
           relativeLayout = findViewById(R.id.rlVar1);
          button1.setOnClickListener(new View.OnClickListener() {
                a0verride
                public void onClick(View view) {
                     relativeLayout.setBackgroundResource(R.color.cool);
          });
           button2.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {
                     relativeLayout.setBackgroundResource(R.color.warm);
          });
           final Button button = findViewById(R.id.button);
           button.setOnClickListener(new View.OnClickListener() {
                a0verride
                public void onClick(View view) {
button.setBackgroundColor(getResources().getColor(R.color.green));
          });
     }
                                                                                  color.xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
     cources>
<color name="purple_200">#FFBB86FC</color>
<color name="purple_500">#FFBB86FC</color>
<color name="purple_700">#FF6200EE</color>
<color name="teal_200">#FF03DAC5</color>
<color name="teal_700">#FF03DAC5</color>
<color name="teal_700">#FF018786</color>
<color name="black">#FF000000</color>
     <color name="white">#FFFFFFFF</color>
     <color name="colorPrimary">#6200EE</color>
<color name="colorPrimaryDark">#3700B3</color>
<color name="colorAccent">#03DAC5</color>
<color name="green">#0F9D58</color>
<color name="cool">#188FCF</color>
     <color name="warm">#F1D416</color>
</resources>
```

#### AndroidManifest.xml

### Output:

