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Course - BCA

Section - 5 B

Roll No. - 1921053 / 18

Subject Name - Mobile Application

Development

Subject Code - TBC 502

Create a simple application to implement a simple calculator in android.

## Code:

```
XML - >
<?xml version="1.0" encoding="utf-8"?>
     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:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
         android:id="@+id/textView4"
         android:layout_width="164dp"
android:layout_height="49dp"
android:text="Calculator"
         android:textSize="34sp"
         app:layout_constraintBottom_toBottomOf="parent"
         app:layout_constraintEnd_toEndOf="parent"
         app:layout\_constraintHorizontal\_bias="0.498"
         app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
         app:layout constraintVertical bias="0.068" />
         android:id="@+id/editTextNumber4"
         android:layout width="176dp"
         android:layout height="47dp"
         android:layout_marginStart="28dp"
         android:layout_marginTop="116dp"
         android:ems="10"
         android:inputType="number"
         app:layout constraintStart toEndOf="@+id/textView2"
         app:layout constraintTop toBottomOf="@+id/textView4" />
         android:id="@+id/textView1"
         android:layout width="wrap content"
         android:layout height="wrap content"
         android:layout marginTop="36dp"
         android:text="1st Number"
         app:layout_constraintEnd_toEndOf="parent"
         app:layout_constraintHorizontal_bias="0.207"
app:layout_constraintStart_toStartOf="parent"
         app:layout constraintTop toBottomOf="@+id/textView4" />
```

```
android:id="@+id/textView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="128dp"
android:text="2nd Number"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.206"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView4" />
android:id="@+id/editTextNumber3"
android:layout_width="177dp"
android:layout_height="47dp"
android:layout_marginStart="32dp"
android:layout_marginTop="28dp"
android:ems="10"
app:layout_constraintStart_toEndOf="@+id/textView1"
app:layout constraintTop toBottomOf="@+id/textView4" />
android:id="@+id/textView8"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="196dp"
android:textSize="16sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintStart_toStartOf="parent"
app:layout constraintTop toBottomOf="@+id/textView4" />
android:id="@+id/mul"
android:layout_width="70dp"
android:layout_height="40dp"
android:layout_marginTop="296dp"
android:text="*"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.409"
app:layout_constraintStart_toEndOf="@+id/div"
app:layout constraintTop toBottomOf="@+id/textView4" />
android:id="@+id/sub"
android:layout_width="70dp"
android:layout_height="40dp"
android:layout_marginTop="240dp"
android:text="-"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.409"
app:layout_constraintStart_toEndOf="@+id/add"
app:layout_constraintTop_toBottomOf="@+id/textView4" />
android:id="@+id/div"
android:layout_width="70dp"
android:layout_height="40dp"
android:layout_marginTop="296dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.293"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView4" />
```

## JAVA - >

```
package com.example.simplecal;
import androidx.appcompat.app.AppCompatActivity;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
   Button add, mul, sub, div, clear;
   EditText num1, num2;
   TextView ans;
   protected void onCreate(Bundle savedInstanceState) {
        setContentView(R.layout.activity main);
        add = findViewById(R.id.add);
        sub = findViewById(R.id.sub);
        num1 = findViewById(R.id.editTextNumber3);
        num2 = findViewById(R.id.editTextNumber4);
        ans = findViewById(R.id.textView8);
        add.setOnClickListener(new View.OnClickListener() {
                int n1 = Integer.parseInt(num1.getText().toString());
                int n2 = Integer.parseInt(num2.getText().toString());
                int add = n1 + n2;
```

```
sub.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        int nl = Integer.parseInt(numl.getText().toString());
        int sub = nl - n2;
        ans.setText(String.valueOf("subtract is : " + sub));
    });
    mul.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            int nl = Integer.parseInt(numl.getText().toString());
            int ml = nl * n2;
            ans.setText(String.valueOf("multiply is : " + mul));
    });
    div.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            int nl = Integer.parseInt(numl.getText().toString());
            int nl = Integer.parseInt(numl.getText().toString());
            int nl = Integer.parseInt(numl.getText().toString());
            int div = nl / n2;
            ans.setText(String.valueOf("divide is : " + div));
    });
    clear.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                 ans.setText(String.valueOf("divide is : " + div));
        }
    });
}
}
```

## Output:



## Calculator

1st Number	12
2nd Number	4
multiply is : 48	

