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Course: BCA
Roll No:57

XMl:

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:padding="16dp"
    android:orientation="vertical"
    tools:context="MainActivity">

    <EditText
        android:id="@+id/et1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="number"
        android:minHeight="48dp"
        tools:ignore="SpeakableTextPresentCheck" />

    <EditText
        android:id="@+id/et2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/et1"
        android:layout_alignParentStart="true"
        android:inputType="number"
        android:minHeight="48dp"
        tools:ignore="SpeakableTextPresentCheck" />
    <TextView
        android:id="@+id/tv1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/et2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="16dp"
        android:text="0"
        android:textColor="@android:color/black"
        android:textSize="50sp" />
    <Button
        android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="add" />
    <Button
        android:id="@+id/b2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="sub" />
```

```xml
    <Button
        android:id="@+id/b3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="mul" />
    <Button
        android:id="@+id/b4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="div" />
</LinearLayout>
```

JAVA:

```java
package com.example.add;

import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    EditText edt1,edt2;
    TextView txtv1;
    Button btn1,btn2,btn3,btn4 ;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        edt1 = findViewById(R.id.et1);
        edt2 = findViewById(R.id.et2);
        txtv1 = findViewById(R.id.tv1);
        btn1 = findViewById(R.id.b1);
        btn2= findViewById(R.id.b2);
        btn3= findViewById(R.id.b3);
        btn4= findViewById(R.id.b4);
        btn1.setOnClickListener(v -> {
            if (edt1.getText().toString().length() == 0) {
                edt1.setText("0");
            }
            if (edt2.getText().toString().length() == 0) {
                edt2.setText("0");
            }
            int num1 = Integer.parseInt(edt1.getText().toString());
            int num2 = Integer.parseInt(edt2.getText().toString());
            int sum = num1 + num2;
            txtv1.setText(String.valueOf(sum));
        });
```

```java
        btn2.setOnClickListener(v -> {
            if (edt1.getText().toString().length() == 0) {
                edt1.setText("0");
            }
            if (edt2.getText().toString().length() == 0) {
                edt2.setText("0");
            }
            int num1 = Integer.parseInt(edt1.getText().toString());
            int num2 = Integer.parseInt(edt2.getText().toString());
            int sub = num1 - num2;
            txtv1.setText(String.valueOf(sub));
        });

        btn3.setOnClickListener(v -> {
            if (edt1.getText().toString().length() == 0) {
                edt1.setText("0");
            }
            if (edt2.getText().toString().length() == 0) {
                edt2.setText("0");
            }
            int num1 = Integer.parseInt(edt1.getText().toString());
            int num2 = Integer.parseInt(edt2.getText().toString());
            int mul = num1 * num2;
            txtv1.setText(String.valueOf(mul));
        });

        btn4.setOnClickListener(v -> {
            if (edt1.getText().toString().length() == 0) {
                edt1.setText("0");
            }
            if (edt2.getText().toString().length() == 0) {
                edt2.setText("0");
            }
            int num1 = Integer.parseInt(edt1.getText().toString());
            int num2 = Integer.parseInt(edt2.getText().toString());
            int div = num1 / num2;
            txtv1.setText(String.valueOf(div));
        });
    }
}
```

Output:

add

15

8

1

ADD

SUB

MUL

DIV

1 2 3 −
4 5 6 ␣
7 8 9 ⌫
, 0 . ✓

add

15

8

120

ADD

SUB

MUL

DIV

1 2 3 −
4 5 6 ␣
7 8 9 ⌫
, 0 . ✓

add

15

8

23

ADD

SUB

MUL

DIV

1 2 3 −
4 5 6 ␣
7 8 9 ⌫
, 0 . ✓

add

15

8

7

ADD

SUB

MUL

DIV

1 2 3 −
4 5 6 ␣
7 8 9 ⌫
, 0 . ✓