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BCA – 5 'C' 1921027

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="48dp"
        android:text="@string/calculator"    android:textSize="28sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/edtNumber1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="64dp"
        android:ems="10"    android:hint="@string/first_number"
        android:inputType="numberDecimal"
        android:textAlignment="center"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

    <EditText
        android:id="@+id/edtNumber2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="32dp"
```

```
        android:ems="10"
        android:hint="@string/second_number"
    android:inputType="numberDecimal"
    android:textAlignment="center"
        app:layout_constraintEnd_toEndOf="@+id/edtNumber1"
    app:layout_constraintStart_toStartOf="@+id/edtNumber1"
        app:layout_constraintTop_toBottomOf="@+id/edtNumber1" />
```

```
<Button    android:id="@+id/add"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="32dp"
    android:text="@string/add"
    android:textSize="24sp"
    android:onClick="add"
        app:layout_constraintEnd_toStartOf="@+id/subtract"
    app:layout_constraintHorizontal_chainStyle="spread_inside"
    app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@id/edtNumber2" />
```

```
<Button
    android:id="@+id/subtract"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="32dp"
    android:text="@string/sub"
    android:textSize="24sp"    android:onClick="subtract"
        app:layout_constraintEnd_toStartOf="@+id/multiply"
    app:layout_constraintStart_toEndOf="@+id/add"
        app:layout_constraintTop_toBottomOf="@id/edtNumber2" />
```

```
<Button
    android:id="@+id/multiply"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="32dp"
    android:text="@string/mul"    android:onClick="multiply"
    android:textSize="24sp"
        app:layout_constraintEnd_toStartOf="@+id/divide"
    app:layout_constraintStart_toEndOf="@+id/subtract"
        app:layout_constraintTop_toBottomOf="@id/edtNumber2" />
```

```
<Button
```

```

        android:id="@+id/divide"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="32dp"
        android:text="@string/div"
        android:textSize="24sp"    android:onClick="divide"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/multiply"
        app:layout_constraintTop_toBottomOf="@id/edtNumber2" />

<TextView
    android:id="@+id/txtResultHeader"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="96dp"
    android:text="@string/result"    android:textSize="24sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/multiply" />

<TextView
    android:id="@+id/txtResult"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"    android:textSize="22sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/txtResultHeader" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package com.example.myapplicationadd;

import android.os.Bundle; import
android.view.View; import
android.widget.EditText;
import android.widget.TextView;

```

```
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private EditText edtNumber1;
    private EditText edtNumber2;
    private TextView result;

    private float number1;
    private float number2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        edtNumber1 = findViewById(R.id.edtNumber1);
        edtNumber2 = findViewById(R.id.edtNumber2);
        result = findViewById(R.id.txtResult);
    }

    public void add(View view) {
        number1 = Float.parseFloat(edtNumber1.getText().toString().trim());
        number2 = Float.parseFloat(edtNumber2.getText().toString().trim());

        result.setText(String.valueOf((number1 + number2)));
    }

    public void subtract(View view) {
        number1 = Float.parseFloat(edtNumber1.getText().toString().trim());
        number2 = Float.parseFloat(edtNumber2.getText().toString().trim());

        result.setText(String.valueOf((number1 - number2)));
    }

    public void multiply(View view) {
        number1 = Float.parseFloat(edtNumber1.getText().toString().trim());
        number2 = Float.parseFloat(edtNumber2.getText().toString().trim());

        result.setText(String.valueOf((number1 * number2)));
    }

    public void divide(View view) {
```

```
number1 = Float.parseFloat(edtNumber1.getText().toString().trim());  
number2 = Float.parseFloat(edtNumber2.getText().toString().trim());  
  
result.setText(String.valueOf((number1 / number2)));  
}}
```

