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BCA - 5 'C'

1921118

<EditText

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" />
```

```
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:id="@+id/edtNumber2"

```
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)));
}
```

