

SIMPLE CALCULATOR

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XML code:

```
<?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/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="43dp"
        android:layout_marginTop="75dp"
        android:layout_marginEnd="310dp"
        android:layout_marginBottom="637dp"
        android:text="1st number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="41dp"
        android:layout_marginTop="77dp"
        android:layout_marginEnd="312dp"
        android:layout_marginBottom="400dp"
        android:text="2nd number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.47"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView4"
        app:layout_constraintVertical_bias="0.382" />

    <EditText
        android:id="@+id/input"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="45dp"
```

```
android:layout_marginTop="54dp"
android:layout_marginEnd="55dp"
android:layout_marginBottom="632dp"
android:ems="10"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/textView4"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/input2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginEnd="48dp"
android:ems="10"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.262" />
```

<Button

```
android:id="@+id/add"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="+"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.405"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
android:id="@+id/sub"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="-"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.043"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<Button

```
android:id="@+id/mul"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```
android:text="*"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.049"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.655" />
```

<Button

```
android:id="@+id/div"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="/"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.405"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.655" />
```

<TextView

```
android:id="@+id/textView"
android:layout_width="60dp"
android:layout_height="42dp"
android:text="result"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.076"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.783" />
```

<EditText

```
android:id="@+id/result"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.651"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.756" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

Java Code:

```
package com.example.cse4002;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

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

        Button b1=findViewById(R.id.add);
        Button b2=findViewById(R.id.sub);
        Button b3=findViewById(R.id.mul);
        Button b4=findViewById(R.id.div);
        final EditText t1=findViewById(R.id.input);
        final EditText t2=findViewById(R.id.input2);
        final EditText t3=findViewById(R.id.result);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int x=Integer.parseInt(t1.getText().toString());
                int y=Integer.parseInt(t2.getText().toString());
                int z=x+y;
                t3.setText(String.valueOf(z));
            }
        });
        b2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int x=Integer.parseInt(t1.getText().toString());
                int y=Integer.parseInt(t2.getText().toString());
                int z=x-y;
                t3.setText(String.valueOf(z));
            }
        });
        b3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int x=Integer.parseInt(t1.getText().toString());
                int y=Integer.parseInt(t2.getText().toString());
                int z=x*y;
                t3.setText(String.valueOf(z));
            }
        });
    }
}
```

```

    }
    });
    b4.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            int x=Integer.parseInt(t1.getText().toString());
            int y=Integer.parseInt(t2.getText().toString());
            int z=x/y;
            t3.setText(String.valueOf(z));
        }
    });
}
}

```

OUTPUT:

