



Solution Review: Design a Calculator

In this lesson, you will see the detailed solution review of the challenge given in the previous lesson.

We'll cover the following

- Solution
- Explanation
 - 1- add function
 - 2- subtract function
 - 3- multiply function
 - 4- divide function
 - test function

Solution

Press the **RUN** button and see the output!

```
#include <iostream>
2
   using namespace std;
4
   double add(double number1, double number2) {
6
      double result = number1 + number2;
7
      return result;
   }
8
9
10 double subtract(double number1, double number2) {
      double result = number1 - number2;
11
12
      return result;
```

```
13
   }
                                                           ₩
14
   double multiply(double number1, double number2) {
15
      double result = number1 * number2;
16
17
      return result;
   }
18
19
20
   double divide(double number1, double number2) {
21
      double result = number1 / number2;
22
      return result;
   }
23
24
25
   double test(double number1, char operate, double number2) {
      double result:
26
27
28
      switch (operate) {
                                                                         []
                                                          D
```

Explanation

1- add function#

The add function takes two values of type double in its input parameters, adds number1 in number2, and returns the result of type double in the output.

```
double add (double number1, double number2);
```

2- subtract function#

The subtract function takes two values of type double in its input parameters, subtracts the number2 from number1, and returns the result of type double in the output.



double subtract (double number1, double number2);

3- multiply function#

The multiply function takes two values of type double in its input parameters, multiplies the number1 by number2, and returns the result of type double in the output.

double multiply (double number1, double number2);

4-divide function#

The divide function takes two values of type double in its input parameters, divides the number1 by number2, and returns the result of type double in the output.

double divide (double number1, double number2);

test function#

The function test takes two values of type double and one value of type char in its input parameters.

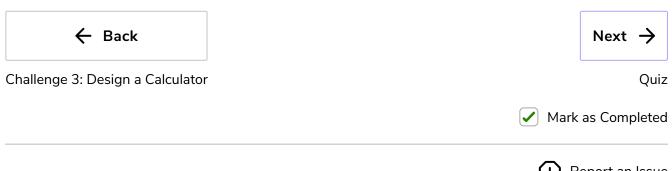
- number1 and number2 takes the values of the operands.
- operate can take +, -, *, and / in its value.

TOTAL TOTAL CONTRACTOR OF THE STATE OF THE S

0	If the value of operate $1s +$, then it calls the ac	dd tunction	a <u>nd</u>
	stores the output of the function in the result	[]	

- If the value of operate is —, then it calls the subtract function and stores the output of the function in the result.
- If the value of operate is *, then it calls the multiply function and store the output of the function in the result.
- If the value of operate is /, then it calls the divide function and store the output of the function in the result.
- For any other value of operate, it should return -1 in the output.

Let's wrap up this chapter by solving a quiz in the upcoming lesson.



!) Report an Issue