Challenge 2: Calculate Student's Total Marks

In this exercise, you have to calculate a student's total marks using the concept of Classes

WE'LL COVER THE FOLLOWING ^

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Problem Statement

Write a C++ **class** called **student** with

- private member variables:
 - o name (string type)
 - mark1 and mark2 (float type)

And member functions:

- Get_Marks(int marknumber), a function which should return mark1 if marknumber equals 1 and mark2 otherwise.
- calc_total() function should take the **two** marks entered and return their **sum**.

Also define **two** constructors:

• A default constructor that takes **no** parameters and initializes the values to

zeros and null.

• A constructor that takes the **three** variables and sets them to given values.

Input

Name of student, marks in first and second test

Output

Sum of both marks

Sample Input

```
("Jack", 60, 70)
```

Sample Output

```
GetMarks(1) => 60
GetMarks(2) => 70
calc_total() => 130
```

Coding Exercise

Write your code below. It is recommended that you try solving the exercise yourself before viewing the solution.

Good Luck!

C.

```
Exercise
                Solution
class Student{
 private:
        // Define private variables here
  public:
         Student() {
           // Write definition here
         Student(string na, float ma1,float ma2){
           // Write definition here
         int GetMarks(int marknumber){
           // Write definition here
         }
         float calc_total(){
           // Write definition here
         }
};
```

Solution Review

- Define the class data members mark1, mark2 and name
- Define the constructor and assign initialization values
- Then, define an overloaded constructor
- Define the GetMarks function inside the class
- Finally, write the calc_total function using mark1 and mark2

In the next challenge, we'll solve another problem of implementing a calculator class.