Challenge 2: Calculate Overall Percentage of Student's Marks

Test your knowledge by solving a challenge.

Problem statement#

In this challenge, you will be given the marks of a student in 4 subjects out of 100. Your task is to calculate the overall percentage of the student. The basic formula for calculating the percentage is given below:

$$Percentage \; = \; (Marks \; Obtained \; / \; Total \; Marks) * 100$$

Since there are 4 subjects and each subject will be of **100** marks, the total marks will be **400**.

Structure `Student`

To store the marks and name of a student, we have already defined the

structure `Student` for you.

```
struct Student {

    string name ;  ——→  store the name of Student
    double marks [ 4 ] ;  ——→  Array to store marks of Student in 4 different subjects

};
```

Function `calculate_percentage`

In this challenge, we have already declared the function `calculate_percentage` that takes a value of type `Student` as its input parameter and returns a value of type `double` in output.

$$\text{double calculate\_percentage (struct Student s)}$$

You have to write your program logic inside the function `calculate_percentage`.

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Sample input

```
calculate_percentage({John, {30.500000 , 49.700000 , 22.300000 , 32.900000 }})
```

Sample output

```
33.85
```

Coding exercise

Before diving directly into the solution, try to solve it yourself. Then check if your code passes all the test cases.

Good luck! 👍

```
1   // Structure to store Student information
2   struct Student {
3     string name;
4     double marks[4];
5   };
6
7   // Function to calculate percentage
8   double calculate_percentage(struct Student s) {
9     double percentage = 0;
10    // Write your code here
11    return percentage;
12  }
```

🎉Well done! If you have solved the problem, give yourself a round of applause.

In case you got stuck, go over the solution review in the next lesson.

✅ Mark as Completed

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