

Exercise 2: Computing Binomial Expression

In this exercise, you need to compute the binomial expression $(a+b)^2$.

We'll cover the following ^

- Problem Statement
- Example

Problem Statement

Write code for computing the *formula*

```
(a+b)^2
```

which expands into the following expression:

$$a^2 + 2ab + b^2$$

Formula

In your code:

- Compute **squares** of `double` type variables `a` and `b`.
- Compute the product `2*a*b`
- Then **Add** the **squares** and the **product** together.
- Use `cmath` library to compute the solution.

Example

Input:

```
a = 2.4;  
b = 4.5;
```

Output

Answer is: 47.61

Expected Output

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

Good Luck!

```
#include <iostream>
#include <cmath>
using namespace std;

double test(double a, double b) {
    double computeSquares;
    double computeProduct;
    double answer;
    //write your code here
    cout << "Answer is: " << answer << endl;
    return answer;
}
```

