

## VIT - Vellore

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### BCSE102P\_Structured and Object Oriented Programming Lab\_VL2024250502354

#### VIT V\_Structured and OOP\_Lab 5\_COD\_Hard\_Class Objects

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Venu is learning about basic arithmetic operations and wants to practice them with a simple program.

Write a program that has a class called Operation that takes two integers: a and b as public attributes. In the main function, it performs the following operations on a and b: Addition, Subtraction, Multiplication, Division, and Modulus.

##### **Answer**

```
#include <iostream>
using namespace std;
class Operation {
```

```

public:
int a, b;
Operation(int x, int y) : a(x), b(y) {}

void performOperations() {
cout << "Addition: " << (a + b) << endl;
cout << "Difference: " << (a - b) << endl;
cout << "Product: " << (a * b) << endl;

if (b == 0) {
cout << "Division by zero not possible" << endl;
return;
}

cout << "Division: " << (a / b) << endl;
cout << "Modulus: " << (a % b) << endl;
};
int main() {
int a, b;
cin >> a >> b;

Operation op(a, b);
op.performOperations();

return 0;
}

```

**Status :** Correct

**Marks :** 10/10