

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

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

```
// You are using GCC
#include<iostream>
using namespace std;
```

```

class Operations{
public:
    int x;
    int y;

    Operations(int a , int b):x(a),y(b){

    int add(){
        return x+y;
    }
    int sub(){
        return x-y;
    }
    int multi(){
        return x*y;
    }
    int divi(){
        return x/y;
    }
    int mod(){
        return x%y;
    }
};

int main(){
    int a,b;
    cin>>a>>b;
    Operations ops(a,b);
    cout<<"Addition: "<<ops.add()<<endl;
    cout<<"Difference: "<<ops.sub()<<endl;
    cout<<"Product: "<<ops.multi()<<endl;
    if(b>0){
        cout<<"Division: "<<ops.divi()<<endl;
        cout<<"Modulus: "<<ops.mod()<<endl;
    }else{
        cout<<"Divison by zero not possible";
    }
}

```

Status : Correct

Marks : 10/10