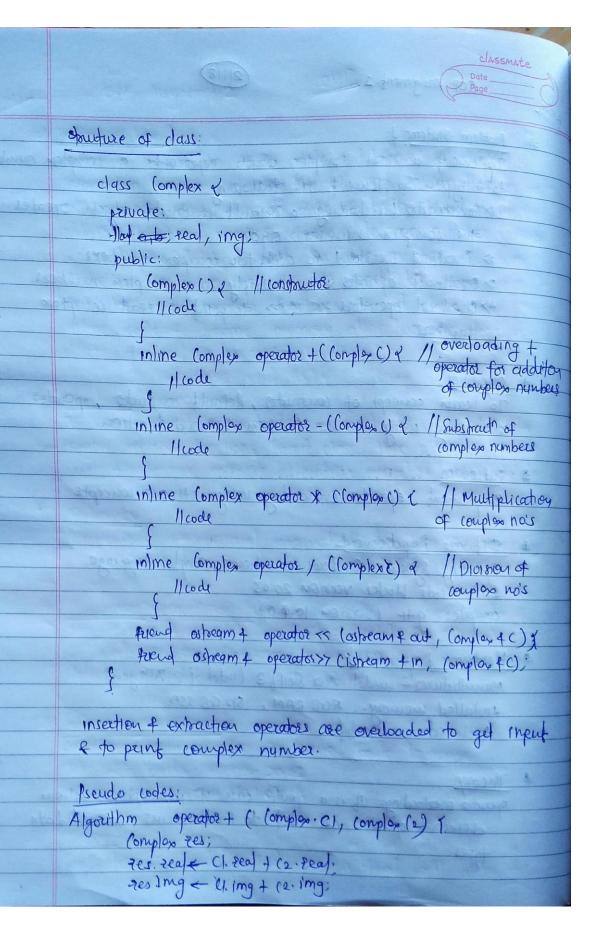
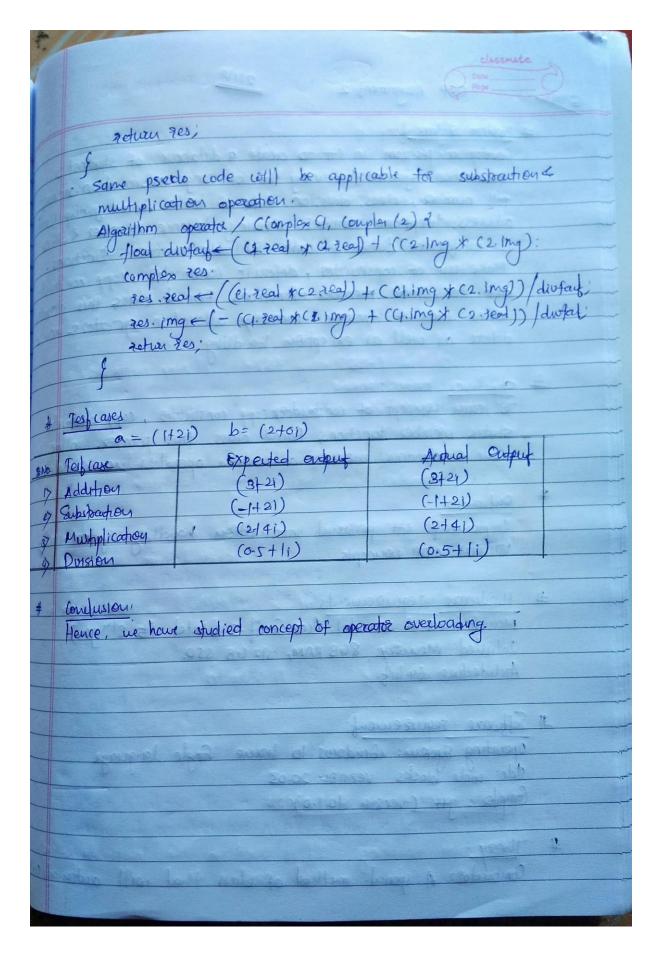


(01118) OOP Assignment-1 Problem Statement. Implement a class complex which represents a complex number data type. Implement the fallowing p constructor (including a default constructor which creates the complex number 0401 2) Ovaload operator + to add two complex numbers of overload operator of to multiply two complex numbers. 4) Overload operators < +>> to print & read complex numbers. + objectives To lease concept of constructor, default constructor, operator ovaloading using member function & friend function. # autcomes amplement operator overloading using the oop concepts. \* software Regursements: Operating System: Windows 10 home single language. Lode blocks version 20.03 compiler: 9++ (version 10.4.0) Hardware Regusemen Manufacturer & model: Aca Soiff 3 (Intel is 3th gen) Installed memory. 84B RAM., 5/2 GB SSP, Architecture: 64-bif Theory: operator overloading: It is a specific case of polymorphism where different operators are used to handle uses defined data types.





## Input:

```
Enter the values of a and b for first complex number:

1 2

Enter the values of a and b for second complex number:
2 0
```

### Addition:

```
Choose Operation:

0 to Exit

1 for addition

2 for substraction

3 for multiplication

4 for division

Enter Here: 1

Addition is: 3 + i(2)
```

### Subtraction:

```
Choose Operation:

0 to Exit

1 for addition

2 for substraction

3 for multiplication

4 for division

Enter Here: 2

Subtraction is: -1 + i(2)
```

# Multiplication:

```
Choose Operation:

0 to Exit

1 for addition

2 for substraction

3 for multiplication

4 for division

Enter Here: 3

Multiplication is: 2 + i(4)
```

#### Division:

```
Choose Operation :
0 to Exit
1 for addition
2 for substraction
3 for multiplication
4 for division
Enter Here : 4
Division is : 0.5 + i(1)
```