SE-201 Object Oriented Concepts and Programming

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Lab #08

Operator Overloading

Exercise

1): Write any program in C++ that overloads Logical Not Operators (!). Following is the prototype of overload logical Not (!) operator:

bool operator! ()

```
E:\Study Materials\C++\sasageyo\x64\Debug\sasageyo.exe
They are not equal_
```

2) Define a class named A, with member variables int x and float y, overload a binary operator (+), add two objects of class A and return their sum in 3rd object.

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

aclass rectangle {
    private:
        int num;
        float deci;
    public:
        rectangle() {
            num = 0;
            deci = 0;
        }
        rectangle operator+(const rectangle&) const;

        rectangle operator+(const rectangle&) const;

        rectangle(int x, float y) {
            rectangle(int x, float y) {
                 cout << "Value of num is " << num << endl;
            cout << endl;
            cout << "Value of deci is " << deci <= endl;
            cout << endl;
            cout <= endl;
            rectangle add;
            add.num = num + rectangletype.num;
            add.num = num + rectangletype.deci;
            return add;
            return endicitype.deci;
            return endicitype.deci;
```

```
E\Study Materials\C++\sasageyo\x64\Debug\sasageyo.exe

Value of num is 4

Value of deci is 2.5

The sum of both is 6.5

Value of num is 5

Value of deci is 1.5

The sum of both is 6.5
```

3) Write a program to overload the insertion (<<) and Extraction (>>) operator.

```
    E:\Study Materials\C++\Ben\x64\Debug\Ben.exe
Enter real part:2
Enter imaginary part:5
The complex object is:2+i5
```

4) Define a class abc with data members a and b. Define a method to overload unary operator (++) for the class objects.

```
      Image: Like the contraction of the con
```