CSE 122

Object Oriented Programming Language

Assignment 2

Marks = 5+5

Problem 1: Complete the Distance class and **Overload** the Arithmetic Assignment Operator (+=) in this class. See the input and output section to understand how to design the logic for overloading += operator.

N.B: 1 foot = 12 inches;

int main()

{

Distance d1, d2, d3(5,90.0), d4(2,11.0);

d1.getDist();

d2.getDist();

d1+=d2;

d1.showDist();

d3 = d3+=d4;

d3.showDist();

return 0;

}

Input:

Enter feet and inches: 5 98.0

Enter feet and inches: 6 108.0

Output:

28 feet 2.0 inches

15 feet 5.0 inches

Problem 2: You have an object "obj" of a class named 'OpOverload'. This class contains two private integer member variable var1 and var2. Your task is to overload the '++' operator in the class so that you can perform the increment of both var1 and var2 by the sum of last three digits of your ID through the following instructions obj++ and ++obj. Perform decrement operation on the same 'obj' through the following instructions obj-- and --obj by overloading '--' operator in the same class.