Kantipur Engineering College

Dhapakhel, Lalitpur

Subject: Object-Oriented Programming

Lab-6

Operator Overloading

Objective:

- To be familiar with the concept of operator overloading.

Theory:
- Concept of Polymorphism
- Types of polymorphism
  - i) Compile Time polymorphism
    - a. Function overloading
    - b. Operator overloading
  - ii) Run time polymorphism
    - a. Virtual functions
- Operator overloading
- Unary operator overloading
- Binary operator overloading

Lab exercises

1. Write a class representing the distance class and overload ++ and – operators to increment and decrement distance.

2. Write a program to concatenate two user given strings using the concept of the operator overloading.

3. Write a program to overload the arithmetic operator (+), relational operator (<=), and stream operator(>>) to operate on the objects of the class 'Time' having hr, min, and sec as its data members

4. Write a program to add two matrices by overloading the + operator.