Kantipur Engineering College

Dhapakhel, Lalitpur

Subject: Object-Oriented Programming

Lab-3

Title:

Objects as a function argument

Objective:

- To be familiar with how to pass an object as an argument and how to return object.
- To solve problems by passing an object as an argument

Theory:

- Function declaration
- Function call
- Function definition
- Object as Function Argument and Return type

Lab exercises

1. Write a Program to find the sum of two complex numbers by passing an object as an argument.

2. Write a Program to find the sum of two complex numbers by passing **two objects as arguments where the function call is done by a third object.**

3. Write a program to find the sum of two complex numbers, a function call by one object passing the second object as a function argument, and returns the third object adding two objects.
   Hint: c3=c1.addComplex(c2);

4. Create a new class named City that will have two member variables CityName (char[20]), and DistFromKtm (float). Add member functions to set and retrieve the CityName and DistanceFromKtm separately. Add new member function AddDistance that takes two arguments of class City and returns the sum of DistFromKtm of two arguments. In the main function, Initialize three city objects. Set the first and second City to be pokhara and Dhangadi. Display the sum of DistFromKtm of Pokhara and Dhangadi