

O b j e c t O r i e n t e d P r o g r a m m i n g**Home Work 04****Marks 10****Instructions**

Work on this home work individually. Absolutely NO collaboration is allowed. Any traces of plagiarism would result in a ZERO marks in this homework and possible disciplinary action. Tasks should be coded in C++.

Due Date

Paste the solution(s) folder of the problems (source code .cpp files only) labeled with your complete roll number in SEM – HW 04 and SEA – HW 04 folders for SE Morning and SE Afternoon sections respectively on Thursday, March 24, 2016 before 05:00 PM. These folders are available at \\printsrv\Teacher Data\Umar Babar\Students.

ADT: Employee

Write a class named **Employee** for which each object can hold information about a particular employee:

- The class should have following **four private data members**
 - A **string** named **name** that holds the **employee's name**.
 - An **integer** named **id** that holds the **employee's ID number**.
 - A **string** named **department** that holds the **name of the department** where the employee works.
 - A **string** named **position** that holds the **employee's job title**.
- Provide the implementation of following **constructors** and a **destructor**
 - A **constructor** that accepts **employee's name, employee's ID number, department, and position** as arguments and assigns them to the appropriate member variables.
 - A **constructor** that accepts **employee's name and ID number** as arguments and assigns them to the appropriate member variables. The **department and position** fields should be assigned an **empty string ("")**.
 - A **default constructor** that assigns **empty string ("")** to the **name, department, and position member variables**, and **0** to the **id member variable**.
 - A **copy constructor** to initialize an employee's object with already existing object.
 - A **destructor** that do nothing except displaying a simple message "Destructor executed..." on the screen.
- Provide the implementation of **properties methods (get/set)** for all the data members (name, id, department and position) of the class.
- Provide the implementation of following member functions
 - setInfo** method accepts **employee's name, employee's ID number, department, and position** as arguments and assigns them to the appropriate member variables.
 - getInfo** method to **initialize the data** of an employee **taken** from the user.
 - putInfo** method to display the **information** of a particular employee.
- Once you have written the class, write **main** function and test its functionality also creates **five Employee objects** to hold the following data.

Name	Id Number	Department	Position
Ejaz Ashraf	1230	PUCIT – Old Campus	Assistant Professor
Muhammad Farooq	1231	PUCIT – Old Campus	Lecturer
Madiha Khalid	1241	PUCIT – New Campus	Lecturer
Arifa Mirza	1242	PUCIT – New Campus	Lecturer

The program should store this data in the five objects and then display the data for each employee on the screen in the appropriate format.

NOTE: - No submission will be accepted after the due date and time.

B E S T O F U C A