|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| final design | **Course:** | **OOAD Lab** | **Course Code:** | **CS-309** |
| **Program:** | **BS(Computer Science)** | **Semester:** | **Fall 2018** |
| **Duration:** | **90 minutes** | **Total Marks:** | **50** |
| **Quiz Date:** | **16-Oct-2018** | **Weight** | **5** |
| **Section:** | **B** | **Page(s):** | **1** |
| **Exam:** | **Quiz 1** | **Roll No:** |  |

**If you find any confusion in the statement, make suitable ASSUMPTIONS and mention it as comment at the start of your code. Do not ask your instructor.**

**Question # 1 (50)**

FAST university needs faculty management system. There are two types of faculty. One is visiting and the other is permanent faculty. System must save following details in system.

Name, CNIC, Date of joining & resign for permanent faculty. Contract signing and payment deliverable date for visiting faculty. Faculty designation i.e Lecturer, Assistant professor, Associate professor. Basic Salary. Visiting faculty can only be lecturer.

System should be able to calculate tax on salary of Permanent faculty based on their designation i.e 3% for Professor, 5% Associate Professor, 7% Assistant Professor and 10% for lecturer. Also 17% tax must be applied on salaries of visiting faculty

Implement a function called FacultyInfo. This function will show the faculty type and its details as mentioned above.

* **Make Complete Class Diagram by identifying obvious and non-obvious classes’ names and draw relationships among classes.**
* **Then perform implementation in JAVA according to your design.**
* Marks will be deducted if there is a mismatch between design and implementation.
* Use StarUML for this part.
* *Make separate .java file for each class.*

**Submission Method:**

1. Create a folder name as your roll no (XXL-XXXX).
2. Put all JAVA files and your UML diagram in that folder.
3. Submit that folder on Xeon.