**Mid-Semester Examination Fall -2019**

Course No. CSE-204 Course Title: Object-Oriented Programming I Lab: Java Time: 1:15 Hours.

**Name:**

**Id:**

**Sec: A2**

**Inventory Management System**

One of your friends has opened an online business store. He needs an application to help him keep track of business goods/items. Each good/item is identified by its name, id, price, type (clothing, kitchen, bedroom, electronics…) and number of items which represent how many of that item is available. He has asked you to develop the application for him. The application will have the following feature.

1. Add new item to the system
2. View list of items with details.
3. View list of items of specific type.
4. Sell an item.
5. Stock in item (add existing item to the shop)

**Design: Draw/List the classes, their attributes and methods**

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**Student Bill Payment System**

In UAP CSE department, each student is required to pay the tuition and registration fee completely to participate in Final exam. For simplicity, we will not consider the 3 instalments system of our current system. Students have to pay the bill at once to participate in the exam. You are asked to develop an application to keep track of student and their payment status. Each Student is identified by his/her name, id and whether he has paid the due. The application should have the following functionalities.

1. Add Student to the system.
2. Mark a student as payment completed

* This will set the payment completed (or eligible to sit in Final exam) status of the particular student is true.

1. View the list of students who haven’t completed the payment
2. View the list of students who have completed the payment
3. View the list of students details in the format of name-id-payment status

**Design: Draw/List the classes, their attributes and methods**

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**Restaurant Ranking System**

Your OOP teacher has assigned a project to you. The project is to develop a Restaurant ranking system where anyone can rank (ranges from 1 to 10) a restaurant. When a restaurant in entered into the system for the first time, the rank (which is the average of all ranks entered by the users) of that restaurant will be 0 as no one has yet ranked the restaurant. Each time a person rank the restaurant, the average rank of that restaurant will change. The application should have the following features.

1. Add Restaurant info to the system.

- Each restaurant is identified by its name, average rank and the number of users already ranked the restaurant.

1. Rank a restaurant

-This functionality will take the new rank from user and updated the existing average rank accordingly.

1. Display the details of a specific restaurant.
2. Display the details of all restaurants.
3. Display the list of restaurants which are above a specific average rank.

**Design: Draw/List the classes, their attributes and methods**