

Final Examination Practical Question Paper

Semester: 2	Curriculum Code: 6608
Date: 19/05/2022	Duration: 1.5 Hour
	Total Marks: 20
Do not write on this question pap	er and return it to the Invigilator after the examination

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Total Marks: [20.0]

Question 1: [12]

 Create class *Item* in package named *market*, and include the following properties and methods:

- Create 3 properties named: *int id, String name* and *double price*, create methods get/set for these properties. [1]
- Create two constructors, one with no argument and one accept value for all properties.[1]
 Create a method named *display()* to display three properties of Item object. [1]
 Create a method named *input()* to input value of three properties from keyboard. [1]
- Create class ItemManager in package market to do following works:
 - o Create method **setItems()** to input information of a Item array, this array is a property of the class. The number of Item is input from keyboard, with maximum is 10. During the input process, if id of Item is -1, the process is finished. [3] ○

Create method **getItems()** to display the list of Item with the following format: [2]

ItemID	ItemName	Price
1	TV Sam Sung	100
2	TV SONY	250
3	Máy Giặt SANYO	120

Highest Item Price : TV SONY : 250 Lowest Item Price : TV SamSung : 100

Average Item Price: 156,67 o Create a method named *findItem()* to find all **Item**

by name and then display them out. [1]

- Create class *Main* in package *market* with a property kind of *ItemManager*. Create method main to do the following works:
 - o Create a menu: [1]
 - 1. Input Item list
 - 2. Display Item list
 - 3. Find Item
 - 4. Exit o When the user select Menu 1, call method **setItems()** of a property type **ItemManager**.
 - $[0.5] \circ \text{When the user select Menu 2, call method } \textit{getItems ()} \text{ of a property type } \textit{ItemManager}.$
 - $[0.5] \circ \text{When the user select Menu 3, call method } \textit{findItem ()} \text{ of a property type } \textit{ItemManager}.$

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 $[0.5] \circ \text{When the user select Menu 4, quit the application.} [0.5]$

Question 2: [8]

Write an application to work with String:

- Create class **Employee** with 2 properties **String name** and **String gender**:
 - Create set, get methods for 2 properties.

[1]

- Create method input() to input value of property *name*, the property *gender* has value depend on value of *name* with the rule: [4]
 - If middle name has word Van then gender is Nam
 - If middle name has word Thi then gender is Nu
 - If **Thi** or **Van doesn't** appear in the middle name then gender is **Unknown**
- o Create method display() to view information of Employee.[1]
- Create class **EmployeeString** with the method main, do the following works:
 - o Input some *Employees*

[1] o Display list of

Employees

[1]

Suggest:

Input n = 3

- · Employee 1: Nguyen Van Cam
- · Employee 2: Hoang Thi Quit
- · Employee 3: Mit

Display:

Name | Gender Nguyen Van Cam Nam Hoang Thi Quit Nu

Mit Khong xac dinh

----THE END-----

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