

Introduction

The purpose of this exercise is to enable the candidate to demonstrate knowledge and understanding of the following concepts in object oriented programming.

- a) Inheritance
- b) Reusability of components
- c) Encapsulation
- d) Coding commenting practices

The programming language to be used can be freely chosen depending on your expertise.

The source code and the executable file should be delivered in a zip format with the candidate name as a file name. In addition, candidate should specify (in the mail body or in an attachment)

- a) the programming language that was used
- b) any other remarks that enable the loading and execution of the application

The case:

You are asked to design and implement a small application for an e-shop that sells

- a) PC Towers
- b) PC screens
- c) Personal Computers
- d) Workstations

You should take into consideration that

- a) The PC tower is composed by 2 components i.e.
 - a. Memory in GB
 - b. CPU in GHz
- b) The PC screen is in inches.
- c) The personal computer is composed by
 - a. 1 PC Tower,
 - b. 1 PC screen
 - c. 1 hard disk drive (in GB) It should be noted that the hard disk drive is not sold separately.
- d) The workstation is composed by a Personal computer as well as an operating system (Windows or Linux) The operating system is not sold separately.

The application should

- a) Enable the user to select one of the following choices
 - a. PC tower
 - b. PC screen
 - c. Personal Computer
 - d. Workstation
- b) Enter the data for each choice depending on the attributes defined above. The data input in all fields / attributes is mandatory and only numeric values should be allowed.
- c) Print the order of the customer (on screen) showing all the details of the chosen component.



Extra notes

- a) The visual components of the user interface can be freely chosen
- b) The user interface should be composed by 3 steps
 - a. First step should show the available choices regarding the products sold by the eshop.
 - b. The second step should
 - i. Display in detail the components of the chosen product
 - ii. Enable the user to enter the attributes of each of the chosen components
 - c. The last step should print the order to the customer (on screen).

If you have any questions related to the understanding of the exercise, please contact us on +302107216236 or nikos.chalaris@improvit.gr