

Object Oriented Programming Project

Create a JAVA program that can store and retrieve data about our Faculty. As you know, Faculty of computers and Information contains Students, Workers, Instructors, Administrators, and technicians.

We need your program to have the ability to store the data about different persons in the Faculty and display them appropriately. The program should use different OOP principles like Polymorphism, Inheritance, Interfaces, Abstract classes, Composition, and any other principle that you found suitable.

Your program MUST override different inherited methods as appropriate. Methods like `toString` and `equals`. It will be useful if your program can save persons data in a file and load them when the program starts execution.

Your program should allow users to search for a person, add a person, delete a person, and display person information.

Your program must be sustainable against any runtime error. You need to use Exception Handling as appropriate to prevent the runtime errors.

Each project consists of 5 students from any section. The project will worth 10 points out of your practical test points. The due date will be on Monday 27/12/2021.

Grading Rubric

We will grade your project based on the following criteria

a) Having a program that is running, reading and displaying different persons	2/10
b) Creating different classes without inheritance	1/10
c) Creating a suitable inheritance of classes	3/10
d) Overriding methods like <code>toString</code> and <code>equals</code>	2/10
e) Using Abstract class	1/10
f) The program run without ANY RUNTIME ERROR	1/10
Total	10/10

To get extra points

- a) Store and retrieve the data in/from a file
- b) Use Interfaces as appropriate