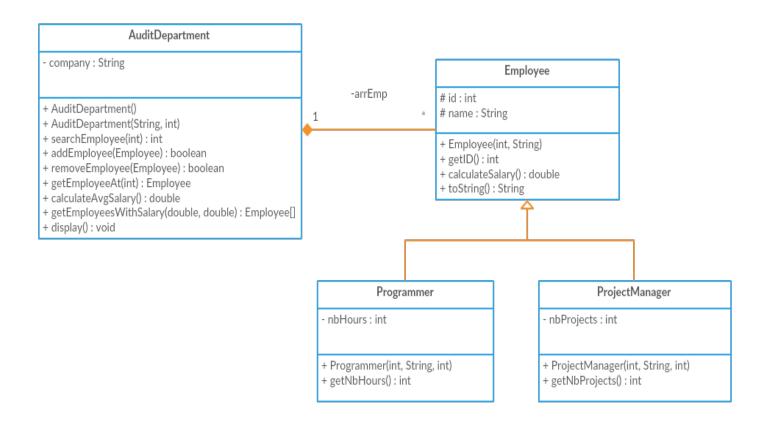
King Saud University College of Computer and Information Sciences Department of Computer Science CSC113 - Computer Programming II - I/O Lab - Fall 2019



We are going to build on our previous work on the AuditDepartment lab from last week and add new methods and options related to I/O operations.

AuditDepartment class:

Methods:

- void saveEmployeesData(String filename): writes into the object file filename all the info of the current employees as an array of Employee (arrEmp)
- o *void loadEmployeesData(String filename):* reads from the object file *filename* all the info of the employees as an array of *Employee (arrEmp)*
- o **String toString():** returns a string representation of an **AuditDepartment** object

Exercise 1: Translate into Java code the previous methods and make sure you handle all possible exceptions related to *IO* in these methods and import all necessary packages.

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Exercise 2:

In the main method that tests the functionalities of the previous classes, add the following options to the menu:

- Previous options
- To read Employees info from an object file, enter 6
- To write Employees info into an object file, enter 7
- To exit, enter -1
- Enter your option:

In cases 6, and 7 you should ask the user to enter the corresponding filenames. In each method-call that throws an exception, handle that exception using *try-catch* statements and print a useful message when an exception is caught. Possible exceptions:

FileNotFoundException, IOException, NumberFormatException, ClassNotFoundException.

To test your program, using the interactive menu do the following:

- Add a few Programmers and ProjectManagers to the AuditDepartment
- Write the **Employees** info into an object file *employees.dat*
- Terminate your program
- Run your program again
- Read the **Employees** info from *employees.dat*
- Terminate your program