Hacettepe University Computer Science and Engineering Department

Name and Surname
Identity Number
Course
Experiment
Subject
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: BBM104
: Assignment 2
: Inheritance

Data Due : 29.04.2020 (23:59)

Problem

Develop a system to monitor payroll of Personnel in a University.

Personnel:

- FACULTY_MEMBER
- WORKER
- SECURITY
- OFFICER
- CHIEF
- PARTTIME_EMPLOYEE
- RESEARCH_ASSISTANT

Input File

[name and surname] tab [registration number] tab [position of pesonnel] tab [and year of start]

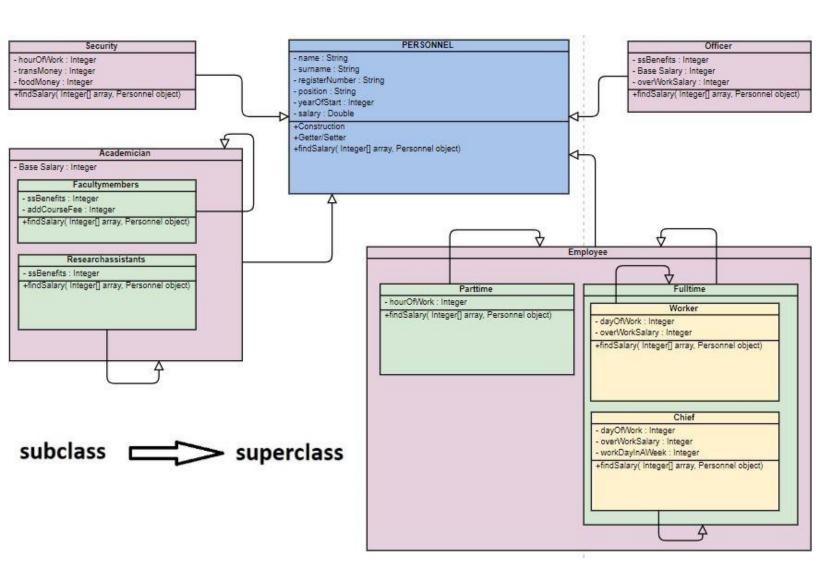
[name and surname] tab [registration number] tab [position of pesonnel] tab [and year of start]

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Additional information: Necessary information is given in BBM104_PA_2.pdf file.

Solution

Firstly, I get information for each position. I should create classes for all of position and should declare object for each personnel. Superclass which named 'Personnel' should be created and I should declared same attributes and methods in the class . That means, I use *inheritance* in our codes. If any information must be changed later, I can only change the class of the relevant position without changing all of my code.



Algorithm

- 1. Read two files (monitoring and personnel)
- 2. Save all lines in arrayList
- 3. Find position which personnel work
- 4. Declare object which personnel have attributes
- 5. Calculate salary
- 6. Create a file which named registiration number
- 7. Write information which personnel have

Output File

[Name]space:space[.....]
[Surname]space:space[.....]
[Registiration Number]space:space[.....]
[Position]space:space[.....]
[Year of Start]space:space[.....]
[Total Salary]space:space[number.00 TL]