

Hacettepe University

Computer Science and Engineering Department

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Course : BBM104
Experiment : Assignment 2
Subject : Inheritance
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PROBLEM

Calculating the salary of each personnel in accordance with personnel's status.

ALGORITHM

1. Create a Personnel Arraylist.
2. Open "personnel.txt"
3. For every personnel in "personnel.txt"
 - 3.1 Read personnel data.
 - 3.2 Create the object relevant with personnel status.
4. Open "monitoring.txt"
5. For every personnel in "monitoring.txt"
 - 5.1 Read personnel working hours
 - 5.2 Calculate personnel salary.
 - 5.3 Create "registrationNumer.txt"
6. Close files

Classes and Methods

Personnel Class

An Abstract Super Class of all classes.

- Salary(int[])

An abstract method which calculates salary of each personnel in accordance with their status.

- Display()

Returns personnel information.

FileIO Class

Performs File I/O operations.

- reader(String path)

Creates a String Arraylist.

Reads the “path” file line by line and add lines to the Arraylist, then returns the Arraylist.

- writer(String information, personnel p)

Creates “registrationNumer.txt” and writes personnel information into that file.

University Class

A Class performs all File I/O operations and calculations.

- createPersonnel(Arraylist<String> personnel)

Reads Arraylist and Creates personnel objects

Note: I did not explain all classes and variables because UML diagram and variable names are understandable enough.

UML DIAGRAM

