## HACETTEPE UNIVERSITY

DEPARTMENT OF COMPUTER ENGINEERING BBM104



Name :

Surname :

Number :

Subject : Inheritence

Programming Language : Java

### Problem Definition

Develop a system to monitor payroll of Personnel in a University with using the java inheritance

### Problem Solving

First, the reader object is created to read the files. Then the readfile () function is used from the reader object. Argument0 is sent to the readfile () function. The function reads the argument0 (personnel.txt) file, places the lines in the array and returns the array. Personnel.txt lines are processed using the create\_object () function in the Reader object. Objects are created according to the positions in the lines. The created objects are saved in 1 arraylist and finally the create\_object () function returns the arraylist. The readfile () function is used again from the reader object. Argünman1 is sent to the function. The function reads the argument1 (monitoring.txt) file, places the lines in the array and returns the sequence. Using the monitoring () function in the Reader object, monitoring.txt lines are processed with the arraylist. The monitoring () function finds the matching staff in arraylist according to the registration number and performs the necessary mathematical operations. After all the calculations are made, the object is created in the Salary class. The arraylist goes to the last operation by calling the calculate\_write () function from the Salary class. The calculate\_write () function creates files according to the registration number for each staff member in the range. The created file contains name, surname, registration number, position, year of start and total salary. Total salary is calculated with the calculate\_all\_money () function and the function calculates according to the parameter. Calculates and returns the total salary.

### UML Class Diagram