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2022-03-25

Pseudocode for main methods from UML Diagram for Course Project

PayRoll:

+computePayRoll():

-private degreeRate = 0;

-private workload = 0;

If Person is a Full Time Teacher THEN(

 (IF Degree = is PhD THEN degreeRate = 112) ELSE

 (IF Degree = is Master THEN degreeRate = 82) ELSE

 (IF Degree = is Bachelor THEN degreeRate = 42)

 ELSE return "Error, teacher degree is invalid";

SET Workload = $(32 * \text{degreeRate} * 2) * 0.85$;

If Person is a Part Time Teacher THEN(

 (IF Degree = is PhD THEN degreeRate = 112) ELSE

 (IF Degree = is Master THEN degreeRate = 82) ELSE

 (IF Degree = is Bachelor THEN degreeRate = 42)

 ELSE return "Error, teacher degree is invalid";

IF Workload < 40 THEN

 return "Error, a part time teacher cannot exceed 40 hours!";

ELSE SET Workload = $((\text{getHoursWorked}) * \text{degreeRate} * 2) * 0.76$;

If Person is a STAFF member THEN(

 IF Workload < 40 THEN

 return "Error, a part time teacher cannot exceed 40 hours!";

ELSE SET Workload = $((\text{getWorkload}) * 32 * 2) * 0.75$;

Opening Text File:

-private departmentID = null;

WHEN Person opens text_file.txt THEN (IF Person = Teacher or Staff THEN
 SET departmentID = knownDepartmentID;;

IF departmentID != knownDepartmentID THEN (
 Return "Error, invalid DepartmentID;)

IF Person != INSIDE text_file.txt THEN (CREATE COPY OF OLD text_file.txt and ADD
DETAILS INTO text_file.txt);

Checking if Dean is a teacher:

If Dean != Teacher IN DepartmentID THEN

 Return "Error! Dean must be a teacher in the same department!";