# Repository

https://github.com/slumberingWoods/Prog2-CourseProject

# computePayRoll()

1. If the class is Staff
   1. Get the value of workLoad
   2. If workLoad is higher than 40, set workLoad to 40
   3. Multiply the workLoad by 32 and 2
   4. Multiply the result of line 3 by 0.75
2. If the class is Teacher
   1. If fullTime is true
      1. Get the value of degree
      2. Create variable degreeRate
      3. Set the degreeRate depending on degree
         1. 112 for PhD, 82 for Master, and 42 for Bachelor.
      4. Multiply degreeRate by 32 and 2
      5. Multiply the result of line 4 by 0.85
   2. If fullTime is false
      1. Get the value of hoursWorked
      2. Get the value of degree
      3. Create variable degreeRate
      4. Set the degreeRate depending on degree
         1. 112 for PhD, 82 for Master, and 42 for Bachelor.
      5. Multiply degreeRate by hoursWorked and 2
      6. Multiply the result of line 5 by 0.76

# addToDepartment(departmentID: int)

1. Get the value of departmentID
2. Find department object having departmentID
   1. If the object exists and the object is of class Staff
      1. Call method addStaff using this object’s staffID
   2. If the object exists and the object is of class Teacher
      1. Call method addTeacher using this object’s teacherID
   3. If the object doesn’t exist
      1. Output an error message that the department doesn’t exist

# addStaff(staffID: int) and addTeacher(teacherID: int)

1. Get the value of staffID or teacherID depending on the class
2. Find the Staff object or teacher object having that staffID or teacherID
   1. For the length of the list of staffs or teachers
      1. If the id of the object matches the id of any of the object in the list
         1. Output an error message saying that the object already exist
         2. Stop loop
      2. Else add the object to the list