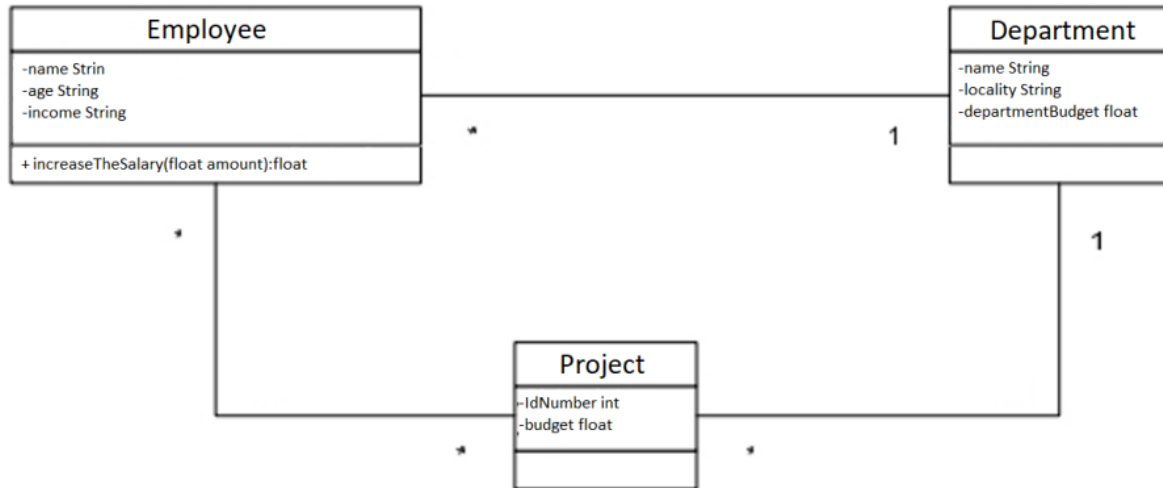# Homework 3

A simplified class diagram is given in the picture. Create with OCL:

A) The condition that the budget of the department must not be negative:

context: Departement
inv: departmentBudget >= 0

B) Correct increaseTheSalary requires the fulfillment of a limiting condition, where in the case of a positive amount, the employee will have his salary increased by this amount. By applying the expression @pre in the output condition, we mean the use of the previous value of the given attribute

context: Employee::increaseTheSalary(amount:float):float
pre: amount > 0
post: self.income = self.income@pre + amount