

Employee Class

Design and implement a class representing an employee. Each employee has an employee number, a name and a salary. The class should include set and get methods for each instance variable, and should have methods to perform the following operations:

- Raise the salary by a an amount
 - Calculate the monthly wage (salary / 12)
 - Calculate the weekly wage (salary / 52)
 - Calculate a bonus based on a percentage of salary. The percentage should be passed to the method as a parameter.
1. Draw a UML class diagram for the Employee class. Ask your lecturer to check this before proceeding.
 2. Implement the Employee class as per your UML diagram
 3. Write a tester class which calls all the methods defined in the Employee class.

Pair Class

Design and implement a class called Pair that has two instance variables no1 and no2. The class should include set and get methods for each instance variable, and should be able to perform the following operations.

- Calculate the sum
 - Calculate the difference
 - Calculate the product
 - Calculate the average
 - Find the maximum(the larger of the two)
 - Find the minimum(the smaller of the two)
 - Set both numbers at once
1. Draw a UML class diagram for the Pair class. Ask your lecturer to check this before proceeding.
 2. Implement the Pair class as per your UML diagram
 3. Write a tester class which calls all the methods defined in the Pair class.