

Exercise 1: Employee Management System

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A company's employees have the following information: employee ID, full name, phone number, position, salary, number of working days in a month, and actual salary.

Employees have the following actions: check-in, check-out, work, and calculate actual salary.

The employee ID is a string that starts with "EMP" and ends with a 4-digit number, which automatically increments from 1000.

Example: The first employee gets ID EMP1000, the next employee gets EMP1001, then EMP1002, and so on.

Using Encapsulation, implement a program with the following functions:

- 1) Add a new employee to the employee list.
- 2) Display the employee list on the screen.
- 3) Calculate salaries for employees in the list.
- 4) Sort the employee list by salary in descending order.
- 5) Sort the employee list by the number of working days in descending order.
- 6) Find and display employee information by employee ID.
- 7) Update the salary for an employee whose ID was given a salary raise.
- 8) Delete an employee based on a given employee ID.
- 9) Exit the program.