Lab4-python

Employee Management System

Requirements

1. Classes & Objects

- **Employee class** with attributes:

    o emp_id (unique)

    o name

    o position

    o salary

    o department

- **Department class** with attributes:

    o dept_name

    o employees (list of Employee objects)

- **Company class** with attributes:

    o company_name

    o departments (list of Department objects)

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2. Class Methods & Features

Employee Class

- display_info() → print employee details

- update_salary(new_salary)

- update_position(new_position)

Department Class

- add_employee(employee)

- remove_employee(emp_id)

- list_employees() → print all employees in department

- get_average_salary()

Company Class

- add_department(dept)

- remove_department(dept_name)

- find_employee_by_name(name)

- highest_paid_employee()

- department_report() → show dept name + no. of employees + avg salary

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3. File Handling

- Save all employees to employees.csv when program ends

- Load employees from file when program starts