Introduction to Computer Programming (2023)

Second Sem Minor Project – 1

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**Test, which contains three methods**:

1.**arrangeEmployeeBySalary():** The arrangeEmployeeBySalary() method takes an array of Employee objects as input and sorts them in descending order based on their salary.

2. **displayManagerDetails():** The displayManagerDetails() method takes an array of Employee objects as input and displays the details of all employees with the job position of "Manager". It prints out the employee's ID, name, salary, hire date, job position, contact number, and address

3. **main():** it creates an array of 500 Employee objects and fills it with randomly generated data for each employee. Each employee has a unique ID, name, salary, hire date, job position, contact number, and address.

**Address class contains methods:**

The class has a constructor method which takes in four parameters - streetName, city, state, and zipCode - and initializes the corresponding instance variables with these values.

Additionally, the class provides getters and setters for each instance variable so that other classes can access and modify these values.

The getters allow other classes to retrieve the values of each instance variable, while the setters allow other classes to modify these values. This encapsulation ensures that the data within an Address object is accessed and modified in a controlled manner.

**Date class**:

the class provides getters and setters for each instance variable so that other classes can access and modify these values. The getters allow other classes to retrieve the values of each instance variable, while the setters allow other classes to modify these values.

Date provides a convenient way to represent dates and can be used in a variety of contexts, such as tracking employee hire dates or scheduling events

**Employee class:**

The Employee class has a constructor that takes in all of these properties as arguments, and sets them to the corresponding instance variables. It also has getter and setter methods for each instance variable, allowing other classes to access and modify the values of these properties.

The Employee class is used to create objects that represent employees for ID, name, salary, date of hire, job position, contact number, and address, respectively.