

Part 01

1. Try all what we have learned in the lecture.
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Part 02

1. **Design and implement a Class for the employees in a company:**

☐ Employee is identified by an ID, Name, security level, salary, hire date and Gender.

2. **Develop a Class to represent the Hiring Date Data:**

☐ consisting of fields to hold the day, month and Years.

3. **We need to restrict the Gender field to be only M or F [Male or Female]**

4. **Assign the following security privileges to the employee (guest, Developer, secretary and DBA) in a form of Enum**

5. **We want to provide the Employee Class to represent Employee data in a string Form (override ToString ()), display employee salary in a currency format. [use String.Format Function]**

6. **Create an array of Employees with size three a DBA, Guest and the third one is security officer who have full permissions.
(Employee [] EmpArr;)**

Notes:

- ❑ Implement All the Necessary Member Functions on the Class (Getters, Setters)
- ❑ Define all the Necessary Constructors for the Class
- ❑ Allow NO RUNTIME errors if the user inputs any data
- ❑ Write down all the necessary Properties (Instead of setters and getters)

7. Sort the employees based on their hire date then Print the sorted array.

- ❑ While sorting (how many times Boxing and Unboxing process has occurred)