Part 01

1. **Try all what we have learned in the lecture.**

Part 02

1 Define a struct "Person" with properties "Name" and "Age". Create an array of three "Person" objects and populate it with data. Then, write a C# program to display the details of all the persons in the array.

2 Create a struct called "Person" with properties "Name" and "Age". Write a C# program that takes details of 3 persons as input from the user and displays the name and age of the oldest person.

Part 03

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)