**Question 1: Hospital Management**

**Q1.** A hospital needs a simple program to manage patient data. Each patient has a unique ID, name, and age. Write a C# program that:

* Declares a structure named Patient with fields ID (int), Name (string), and Age (int).
* Creates an array of 5 Patient structures.
* Reads the patient details from the user and stores them in the array.
* Prints the details of all patients.

**Question 2: Temperature Records**

**Q2.** A weather station records temperatures for a week. Write a C# program that:

* Declares an array of 7 doubles to store the temperatures.
* Reads the temperatures from the user.
* Calculates and prints the average temperature.
* Finds and prints the highest and lowest temperatures recorded during the week.

**Question 3: Student Grades**

**Q3.** A school wants to keep track of student grades. Write a C# program that:

* Declares a structure named Student with fields RollNumber (int), Name (string), and an array Grades (int[5]) to store grades for 5 subjects.
* Creates an array of 3 Student structures.
* Reads the student details and grades from the user.
* Prints the details of each student along with their average grade.

**Question 4: Inventory Management**

**Q4.** A small store needs a simple inventory management system. Write a C# program that:

* Declares a structure named Item with fields ItemCode (int), ItemName (string), and Quantity (int).
* Creates an array of 4 Item structures.
* Reads the item details from the user and stores them in the array.
* Searches for an item by ItemCode and prints its details if found.

**Question 5: Election Results**

**Q5.** A city has an election with 4 candidates. Write a C# program that:

* Declares an array of 4 integers to store the votes each candidate received.
* Reads the votes for each candidate from the user.
* Calculates and prints the total number of votes.
* Determines and prints the candidate with the highest votes.

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**Weather Data Processing**

**Q6.** You are given the temperature readings of a week (7 days) for a city. The temperatures are stored in an array of doubles. Write a C# program to:

1. Store the temperatures for 7 days in an array.
2. Find and print the highest and lowest temperatures of the week.
3. Calculate and print the average temperature of the week.
4. Identify and print the days (indices) when the temperature was below the average temperature.