Question 1

Define a **struct** named Date with members day, month, and year. Then, create another struct named Person with:

- name (char[10])
- dob (of type Date)
- A function display() inside the struct to print the details.

Write a program that takes input for a Person, including their date of birth, and displays the details using the display() function.

Question 2 (Use the skeleton file)

Create a struct named Subject with:

- subjectName (string)
- marks (int)

Then, define another struct named Student, which contains:

- name (string)
- rollNumber (int)
- An array of Subject objects

Write a program that:

- 1. Takes input for one student along with their marks in subjects.
- 2. Computes and displays the total marks for each student.

Question 3

Define a program to store information about students. Each student should have a name, age, rollNumberand address. The address should include the street name and zip code. Create a nested structure to represent the address within the structure for a student. Use this structure to store information about a student and display their details.

```
struct Address {
          string street;
          int zipCode;
};
```

```
struct Student {
    string name;
    string rollNumber;
    Address address; // Nested structure

// Add input() and display() functions
};
```

The ExamRoom structure has a seatingArrangement member, which is a dynamically allocated 2D array (matrix) of Student structures.

- Make a function to input Students data inputStudentRecords(int numOfStudents).
- The makeSeatingPlan(int rows, int columns) member function makes the seating arrangement according
- The displaySeatingPlan() member function displays the students name of the matrix.

```
struct ExamRoom {

int numRows;

int numCols;

Student *students

Student** seatingArrangement;

inputStudentRecords(int n) {

// allocate memory for *students

// Initialize *students by taking user input for "n" number of student

}

makeSeatingPlan(int rows, int cols) {

// set numRows & numColumns

// Initialize the **seatingArrangement to arrange the students (*students) in ExamRoom (seating arrangement) in ascending order on roll Numbers

}
```

```
displaySeatingPlan(){
    // display the name of students in **seatingArrangement
}
```