

Question 1 — Class: HospitalPatient

Create a class named **HospitalPatient** with the following data members:

- **patientName**
- **age**
- **gender**
- **disease**
- **admissionDate**
- **doctorAssigned**

Write **one member function** named **showDetails()** to display all the patient information.

Task for students:

Create an object of HospitalPatient, enter all data members, and call **showDetails()**.

Question 2 — Class: Car

Create a class named **Car** with the following data members:

- **brand**
- **model**
- **color**
- **manufactureYear**
- **engineCapacity**
- **price**

Write **one member function** named **displayCar()** that prints all car details.

Task for students:

Create an object of Car, store values for all data members, and call **displayCar()**.

Question 3- BST + Traversal

Question 4- BST + Search Element

Question 5- BST + Deletion

Question 6 Create a bst also min and max heap with given set of elements **12 5 18 3 7 15 20 1**