OOPD Assignment

Design a **Hospital Management System**.

Tasks that need to be performed are as follows:

1. Identify all the *real world entities* involved in the system (For eg: patients, doctors, nurse, clinical assistants, other staff members). List these classes and their properties (For eg: Speciality of Doctors, availability, personal details, reports of patients etc).

   20 marks

2. Create a *hierarchy* of the identified classes (or at least keep a hierarchy at the back of your mind while performing task 3). **10 marks**

3. Identify the relationships between entities, i.e. how they interact with each other. (For eg: patients are *assigned to* some doctors, clinical assistants *assist* doctors). Try to come up with more such interactions.

   30 marks

4. Represent the entire system clearly using diagrams. The diagrams need not follow an established notation such as UML. You can come up with a notation scheme of your own. Make sure they are clear and concise.

   40 marks

5. Bonus: Use UML notations. However, to be eligible for bonus marks, the entire system should follow proper UML notation.

   20 marks

State your assumptions wherever necessary.