Exercise:

Create the domain models for the following systems

Task no.1

There is an Indus hotel in the city of Hyderabad having rooms, kitchen, inventory system, receptionist, manager, chefs and guests.
Every room has a room number and floor number. All rooms can be booked by guests.
Hotel database contains the data about all the chefs and reception, including their name, id, phone number and location.
Receptionist task is to book rooms for the guests. Manager manages the inventory system of the hotel. All chefs work in the kitchen of the hotel.
Every guest's information is collected before booking, including: name, ID, phone number, address and email.

Task no. 2

A Fashion store wants an online platform to sell their clothes and other stuff. Make a domain model for the online platform, having the following requirements.

1. Each customer has a unique Id and is associated with exactly one account
2. Customer logins to the website to buy products.
3. The website should have all the items with details like product name, price, size, quantity and overview.
4. Customer can add one or more items to the shopping cart
5. Customer can order added items
6. Payment details of customer are required like Id, name, address, phone and email.

Task no. 3

A transport company rents the vehicles to the passengers which are owned by a particular person (owner).
The company has the record of basic details of the vehicle owner.
Each vehicle is assigned with a registration number and type like car, van or bus.
There is one driver for every vehicle.
Customer can book any vehicle and pays rent to the owner of the vehicle. Each customer will be assigned Renting ID.

Task no.4

A person can have no passport or one passport, the attributes of passport are passport number and expiry number. Each person can have only one passport. Write a java code for this scenario and generate a domain model using Objectaid UML Explorer.

Task no. 5

A hospital can have many doctors, the doctor class should have doctor name and CNIC. There should be at least one or more doctors in the hospital. Create a java program for this case and generate a domain model using Objectaid UML Explore.