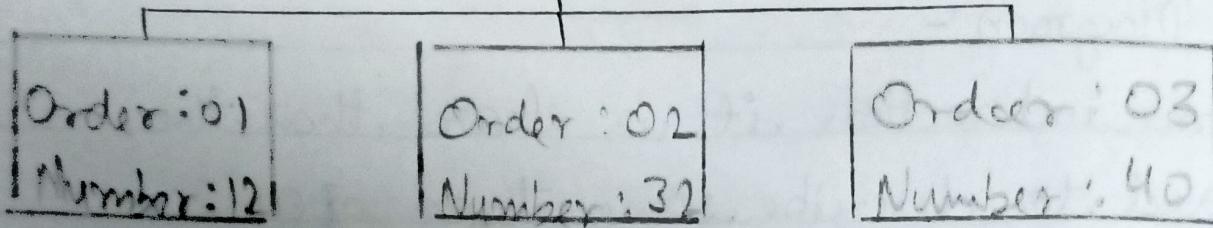


C: Customer



## Experiment - 05

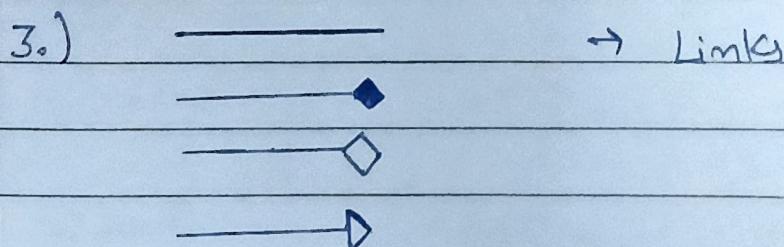
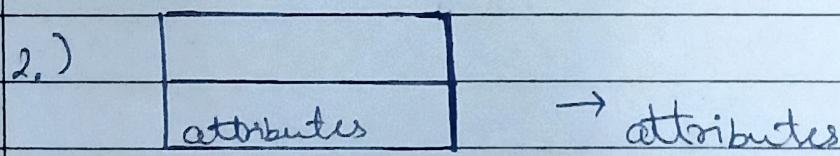
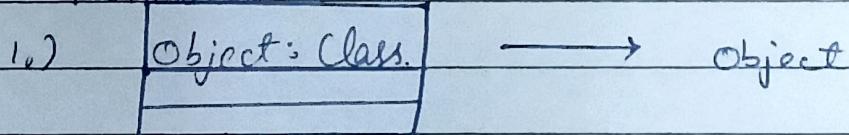
Draw a object diagram for order management system.

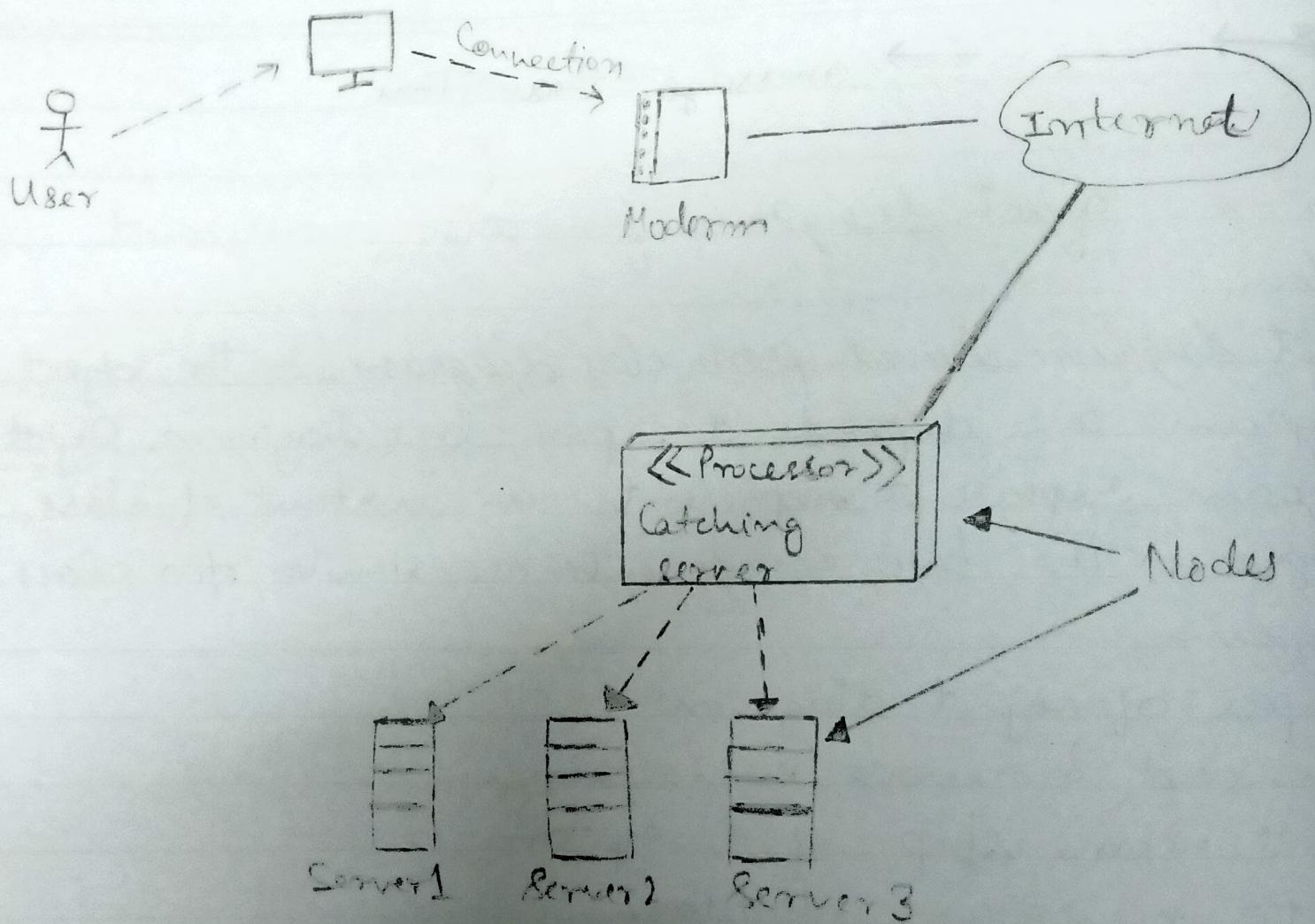
Object diagram derived from class diagram. So the object diagrams are dependent upon class diagrams. Object diagrams represent an instant of class diagrams. The basic components are similar for class diagrams.

Purpose of object diagram:-

- forward & reverse engineering.
- Object relationship of a system
- Static view of an interaction.
- Understand object behaviour & practical perspective.

\* Notations:-





## Experiment-07

Draw a deployment diagram for order management system.

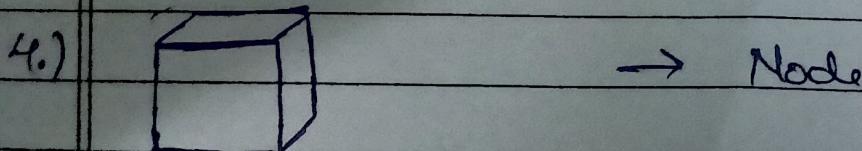
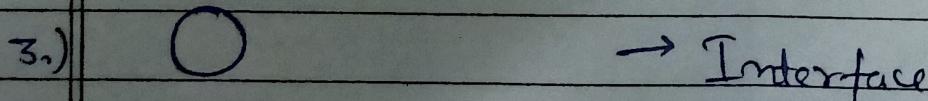
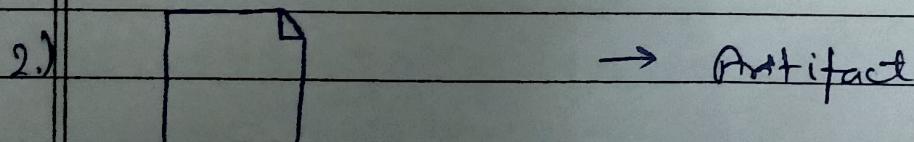
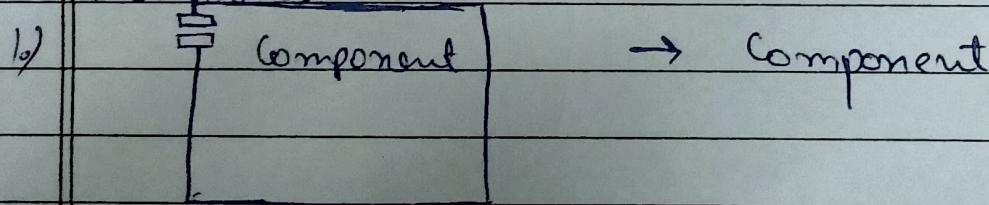
Deployment diagram are used to visualize the topology of the physical components of system, where the SW components are deployed.

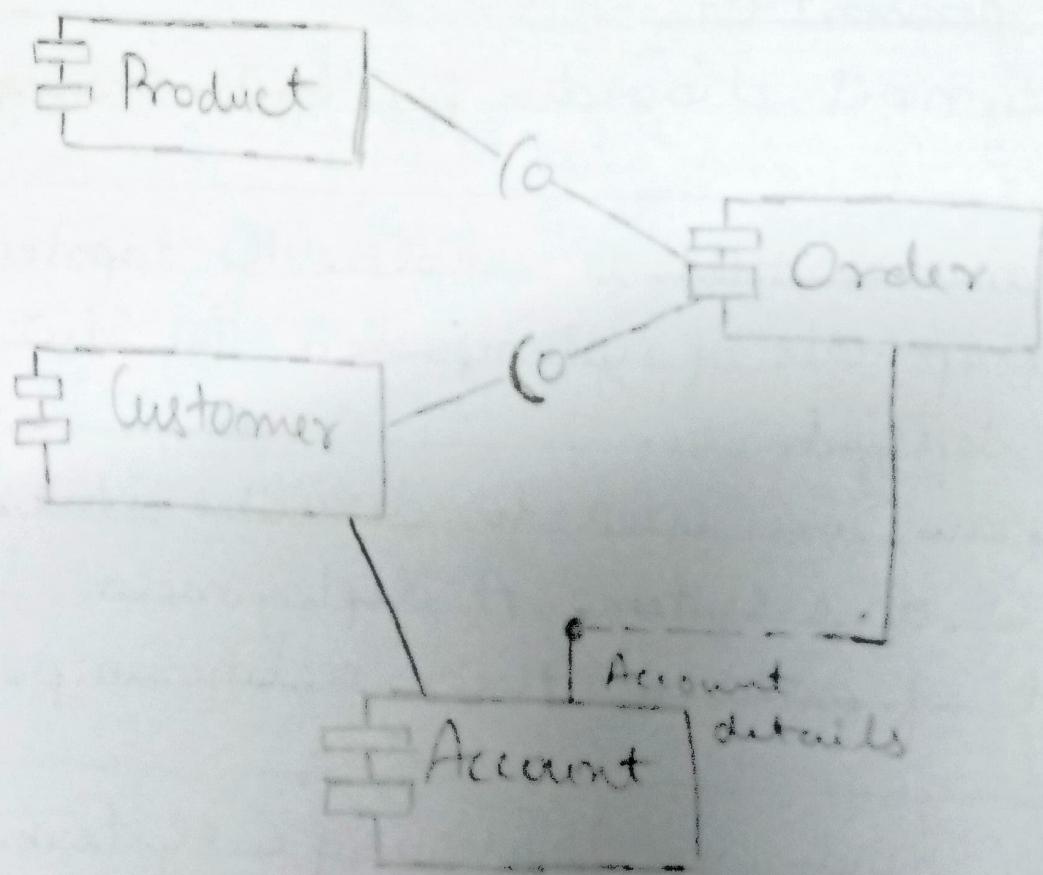
Deployment diagram are used to describe static deployment view of a system. A deployment diagram consist of nodes & their relationship.

Purpose:-

- Visualize the hardware topology of a system.
- Describe the HW components used to deploy SW components.
- Describe the runtime processing node.

\* Notations:-



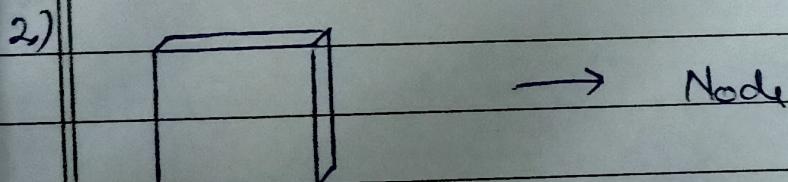
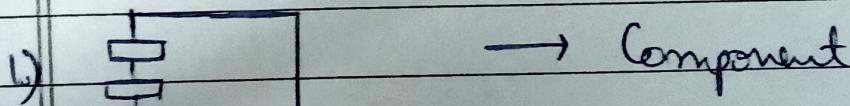


## Experiment - 08

Draw a component diagram for online shopping system.

A component diagram is used to break down a large object oriented system into more manageable, it model the physical of a system such as executable files, libraries, etc.

\*Notations :-



Purpose:-

- it envisions each component of a system.
- it construct the executable by incorporating forward & reverse engineering.
- it depicts the relationship & organization components.

Order	
O.id	++
O.Amount	

Customer	
C.ID	
C.Name	
C.Address	

Order Line	
ID	
QTY	
Amount	

Product	
P.ID	
P.Name	
P.Price	

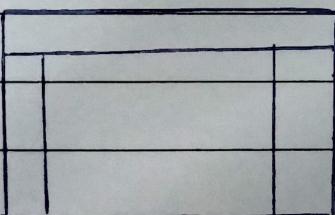
## Experiment-09

Draw a ER diagram for order processing system.

ER-modeling use a data modeling methods used in SW engineering to produce a conceptual data model of an ~~info~~ information systems. Diagrams are called entity-relationship diagram

- \* Purpose of ER Diagram:-
  - The database analyst gain a better understanding of data to be contained in the database through constructing ERD.
  - The ERD serve as a servers as documentation.
  - Finally, the ERD is used to connect the logical structure of the database to user
- \* Notations :-

1.)



→ Entity

2.) → one to one relationship

3.) → one to many relationship

4.) → many to many relationship.

# POORNIMA COLLEGE OF ENGINEERING , JAI

## Evaluation Report

Name of the Laboratory.....Software Engineering.....Lab.....

Code.....

To be filled by the student						To be filled by the faculty		
S No.	Name of the experiment	Pg. No.	Date of Allotment	Date of Performance	Attendance (2)	Record* (3)	Performance** (5)	Total (10)
1.	Use case diagram	3-5	20/9/23	20/9/23	2	3	5	10
2.	Class diagram	6	20/9/23	20/9/23	2	3	5	10
3.	State Chart diagram	7	27/9/23	27/9/23	2	3	4	9
4.	Activity diagram	8	27/9/23	27/9/23	2	3	5	10
5.	Sequence diagram	9	27/9/23	27/9/23	2	3	5	10
6.	Object diagram	10	4/10/23	4/10/23				
7.	Deployment diagram	11	4/10/23	4/10/23				
8.	Component diagram	12	4/10/23	4/10/23				
9.	PF diagram	13	4/10/23	4/10/23				
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								
18.								
19.								
20.								

\* Preparation & Lab record

\*\* Overall Quality of Performance, Knowledge about application of experiment, Technical details of equipments, Process & Theory involved in practical & Viva

Max. Marks : ..... Marks Obtained ..... Average .....