

DAY: \_\_\_\_\_

DATE: \_\_\_\_\_

Subject:

Object Oriented Programming

Submitted to:

Sir Kalim Salim

Submitted by:

Fiaz Ahmad

Reg NO:

FA24-BSE-127

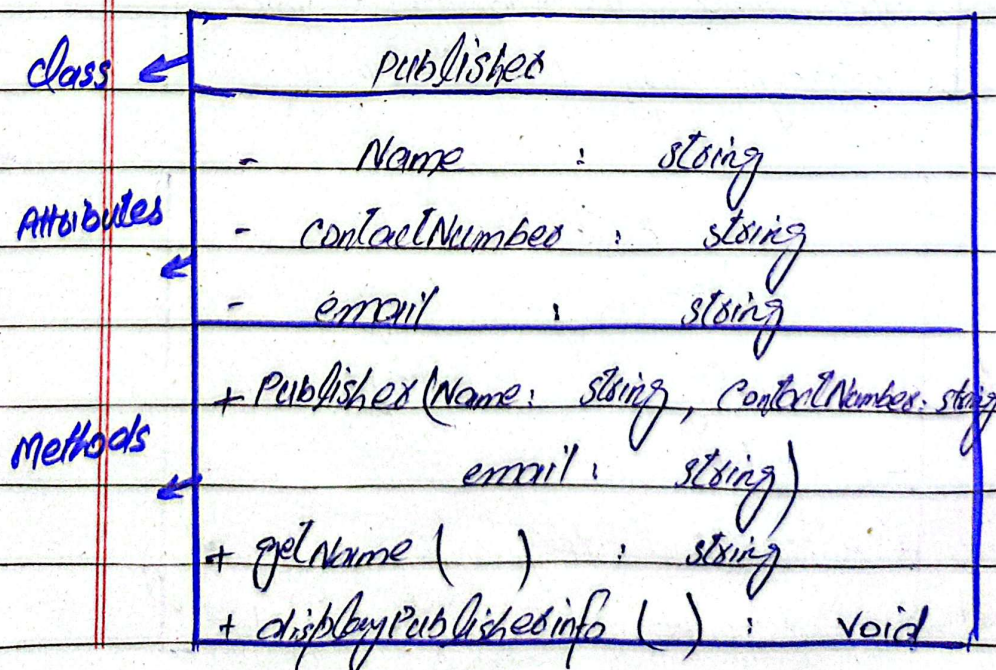
(Section 3B)

Topic :

UML - Diagram

Comsats University Islamabad  
(Vehari Campus)

Assignment NO # 01





DAY: \_\_\_\_\_

DATE: \_\_\_\_\_

class ←

Book

Attributes ←

- title : string  
 - Author : string  
 - Price : double  
 - isbn : string  
 - stockQuantity : int  
 - published : Published

methods ←

+ Book (title: string, Author: string, Price: double, isbn: string, published: Published, stockQuantity: int)  
 + getAuthor () : string  
 + getTitle () : string  
 + getPrice () : int  
 + getIsbn () : string  
 + updateStock (int Quantity) : void  
 + displayBookInfo () : void

class ←

Address

Attributes ←

- street : string  
 - country : string  
 - city : string

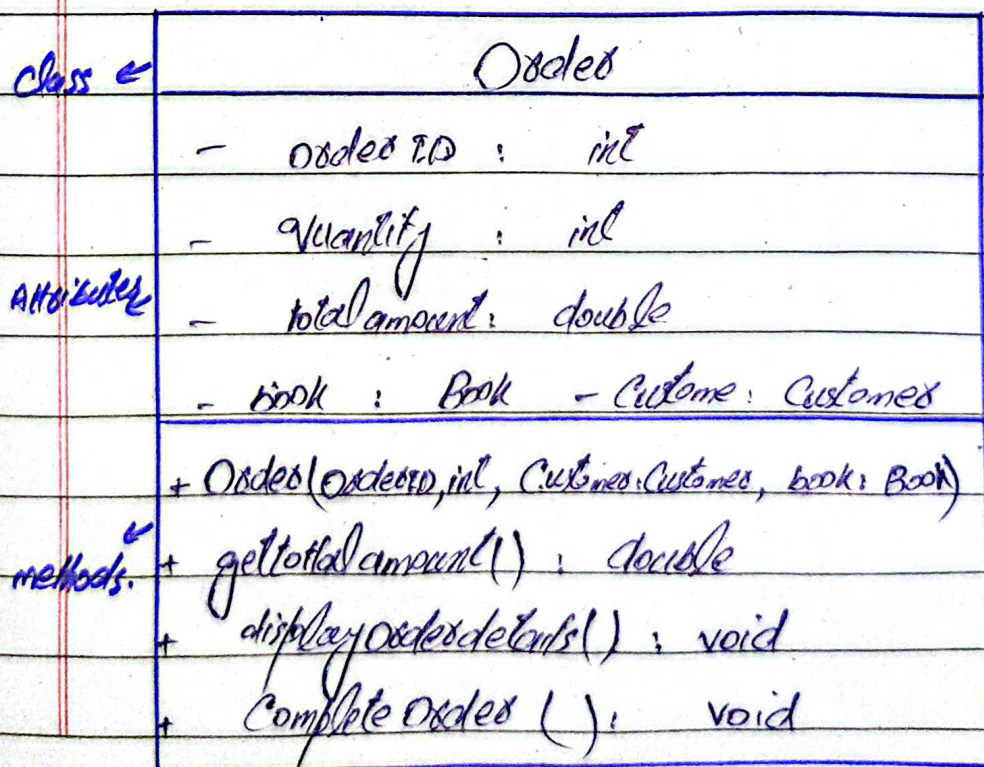
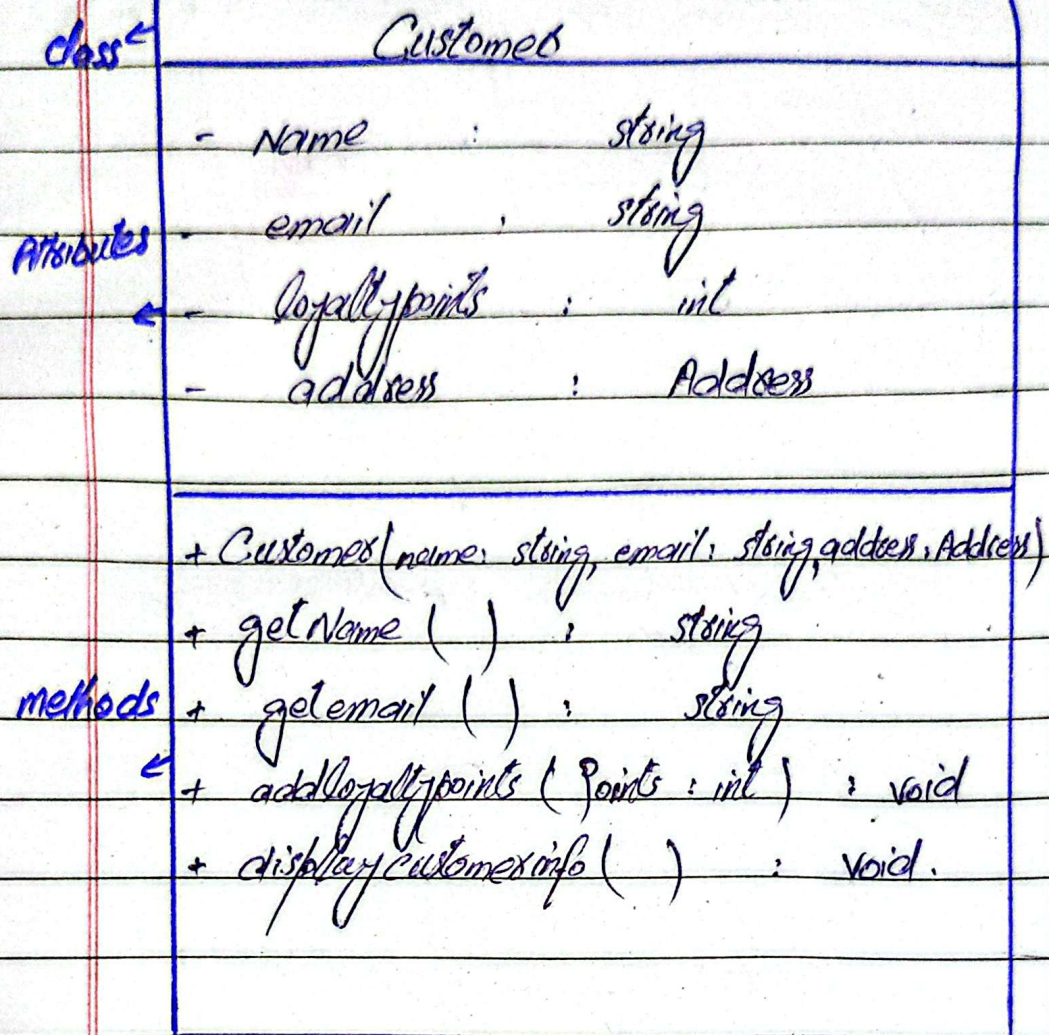
methods ←

+ Address (street: string, Country: string, C: string)  
 + displayAddress () : void



DAY: \_\_\_\_\_

DATE: \_\_\_\_\_





DAY: Classes

objects  
DATE: \_\_\_\_\_

Published

published : Published  
Name = "Riaz"  
Contact Number = "0309-7376"  
Email = "Riaz@ymail.com"

Book

book : Book  
Title = "OOP" Published = published  
Author = "Khalim Sarwar"  
Price = 275.76  
ISBN = "ISBN002"  
Stock Quantity = 25

Address

address : Address  
Street = "123 Street"  
Country = "Pakistan"  
City = "Vehadi"

Customer

Customers : Customer  
Name = "Riaz Ahmad"  
Email = "sami@gmail.com"  
Loyalty Points = 0  
Address = address

Order

orders : Order  
Order ID = 256  
Quantity = 30  
Total Amount = 250  
book → Book Customer → Customer

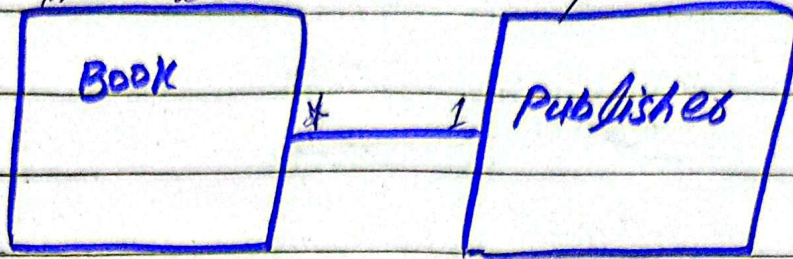


DAY: \_\_\_\_\_

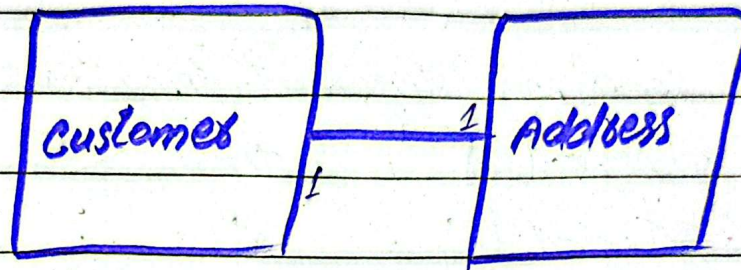
# Classes Relationship

DATE: \_\_\_\_\_

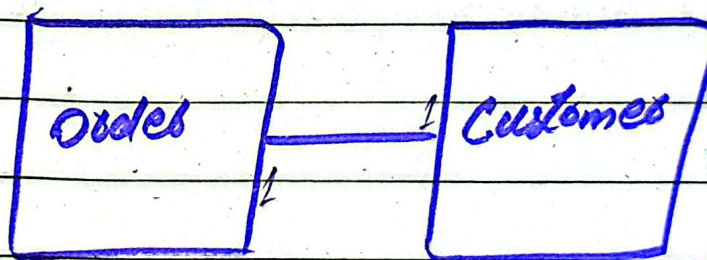
These relations are Composition Relation.



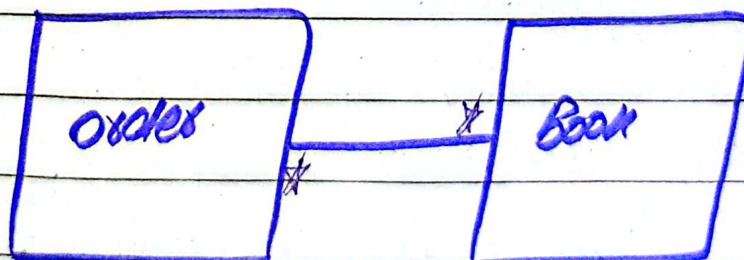
Many  $\longrightarrow$  One



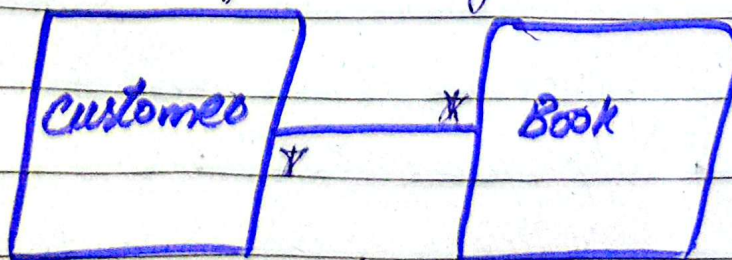
One to One



One to One



Many to Many



Many to Many.