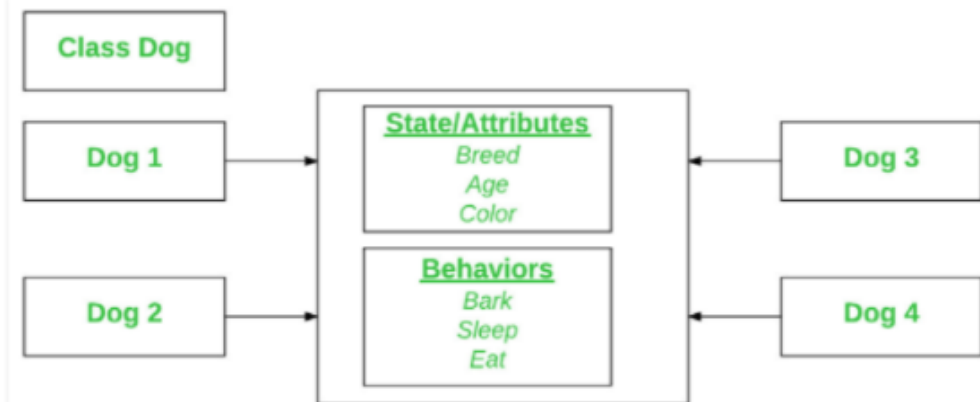
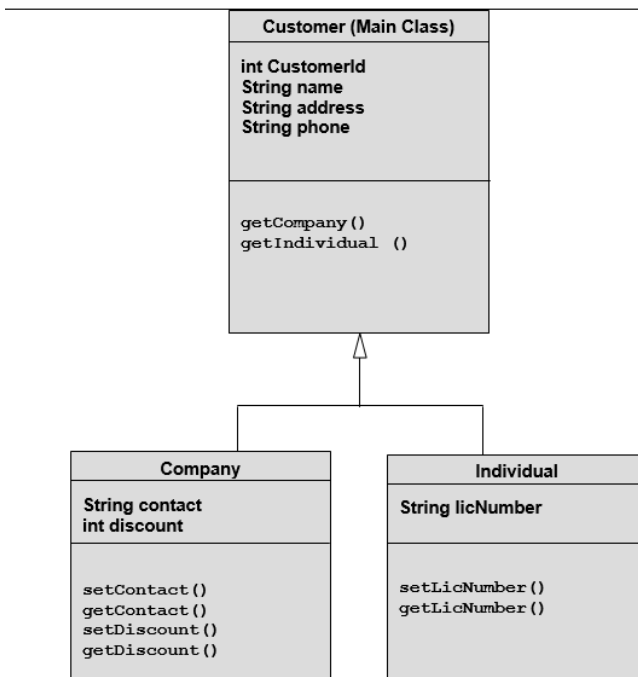


1902IT452 – JAVA PROGRAMMING LABORATORY					
Academic Year :		2023-24	PAT-II	Programme :	IT
Year / Semester :		II/IV		Course Coordinator:	Manikandan.S

S.No	Questions	BTL
CO3: Design Inheritance and Interface using Java		
1	Implement following using Inheritance  <pre> classDiagram class Dog { +Breed +Age +Color +Bark +Sleep +Eat } class Dog1 class Dog2 class Dog3 class Dog4 Dog1 -- > Dog Dog2 -- > Dog Dog3 -- > Dog Dog4 -- > Dog </pre> The diagram shows a central 'Class Dog' box containing 'State/Attributes' (Breed, Age, Color) and 'Behaviors' (Bark, Sleep, Eat). Four boxes labeled 'Dog 1', 'Dog 2', 'Dog 3', and 'Dog 4' have arrows pointing to the 'Class Dog' box, indicating inheritance.	K3
2	Write the Java Program for above Class diagram  <pre> classDiagram class Customer { +int CustomerId +String name +String address +String phone +getCompany() +getIndividual() } class Company { +String contact +int discount +setContact() +getContact() +setDiscount() +getDiscount() } class Individual { +String licNumber +setLicNumber() +getLicNumber() } Customer < -- Company Customer < -- Individual </pre> The diagram shows a 'Customer (Main Class)' box with attributes (int CustomerId, String name, String address, String phone) and methods (getCompany(), getIndividual()). Below it are 'Company' and 'Individual' boxes. Arrows point from 'Company' and 'Individual' to 'Customer', indicating inheritance. The 'Company' box has attributes (String contact, int discount) and methods (setContact(), getContact(), setDiscount(), getDiscount()). The 'Individual' box has attribute (String licNumber) and methods (setLicNumber(), getLicNumber()).	K4
3	Explain various types of Inheritance with example	K2

4	Write the Java Program to Print 100 to 1 Prime numbers using interface	K3		
5	Write a java program to print sum of array	K3		
CO4: Implement Event Handler, JDBC and Exception Handling concepts using Java				
1	Write the Java Program to Check whether given String is Palindrome or not using Exception Handling	K3		
2	Write Java Program to Token Generation	K3		
3	Write a java program to prove this equation $(a+b)^3=a^3+3a^2b +3ab^2 +b^3$ using Event handlers	K3		
4	Write a java program to perform problem Tower Of Hanoi	K3		
5	Write the Java Program to Convert Fahrenheit to Celsius and Celsius to Fahrenheit in different classes	K3		
CO5: Create real time application using Java				
1	Write a java program to perform below problem using JSP <table><tr><td>Rows: ***** **** *** ** *</td><td>Rows: * ** *** **** *****</td></tr></table>	Rows: ***** **** *** ** *	Rows: * ** *** **** *****	K3
Rows: ***** **** *** ** *	Rows: * ** *** **** *****			
2	Event Details Be it a last minute get together, a birthday party or corporate events, the "Pine Tree" Event Management Company helps you plan and execute it better and faster. Nikhil, the founder of the company wanted the Amphi Event Management System to get and display the event details from his Customers for every new order of the Company. Write a program that will get the input of the event details like name of the event, type of the event, number of people expected, a string value (Y/N) telling whether the event is going to be a paid entry and the projected expenses (in lakhs) for the event. The program should then display the input values as a formatted output. Input Format: First input is a string that corresponds to the name of the event. Assume the maximum length of the string as 50. Second input is a string that corresponds to the type of the event. Assume the maximum length of the string as 50. Third input is an integer that corresponds to the number of people expected for the event. Fourth input is a character that corresponds to Y/N telling whether the event is going to be a paid entry or not. Fifth input is a double value that corresponds to the projected expenses (in lakhs) for the event. Output Format: Output should display the event details as given in the sample output. All double values need to be displayed correct to 1 decimal place	K4		

	Refer sample input and output for formatting specifications.	
3	Write a java program to sort the array in ascending order and descending order	K3
4	Write a Java program to create a table” Studentdetails” and insert the fields roll number and name with JDBC connectivity	K4