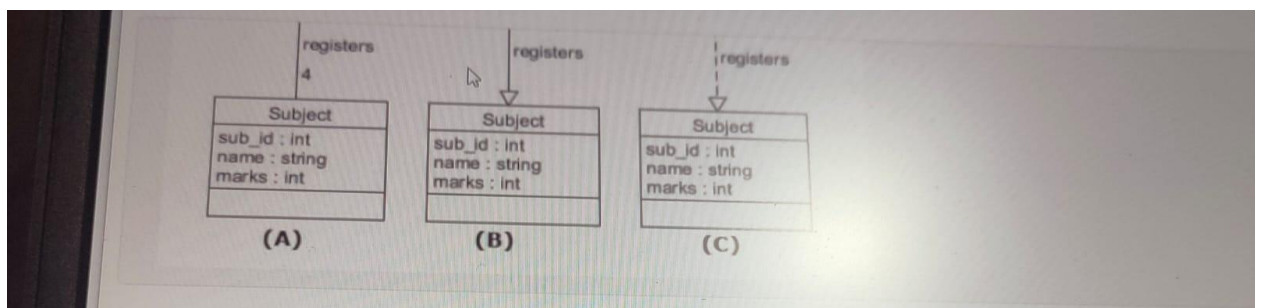
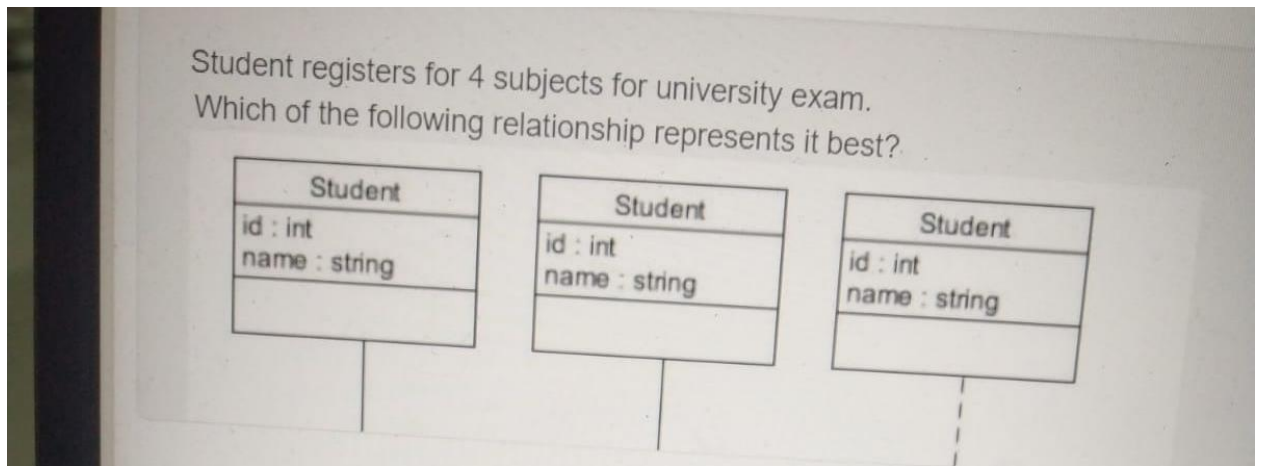


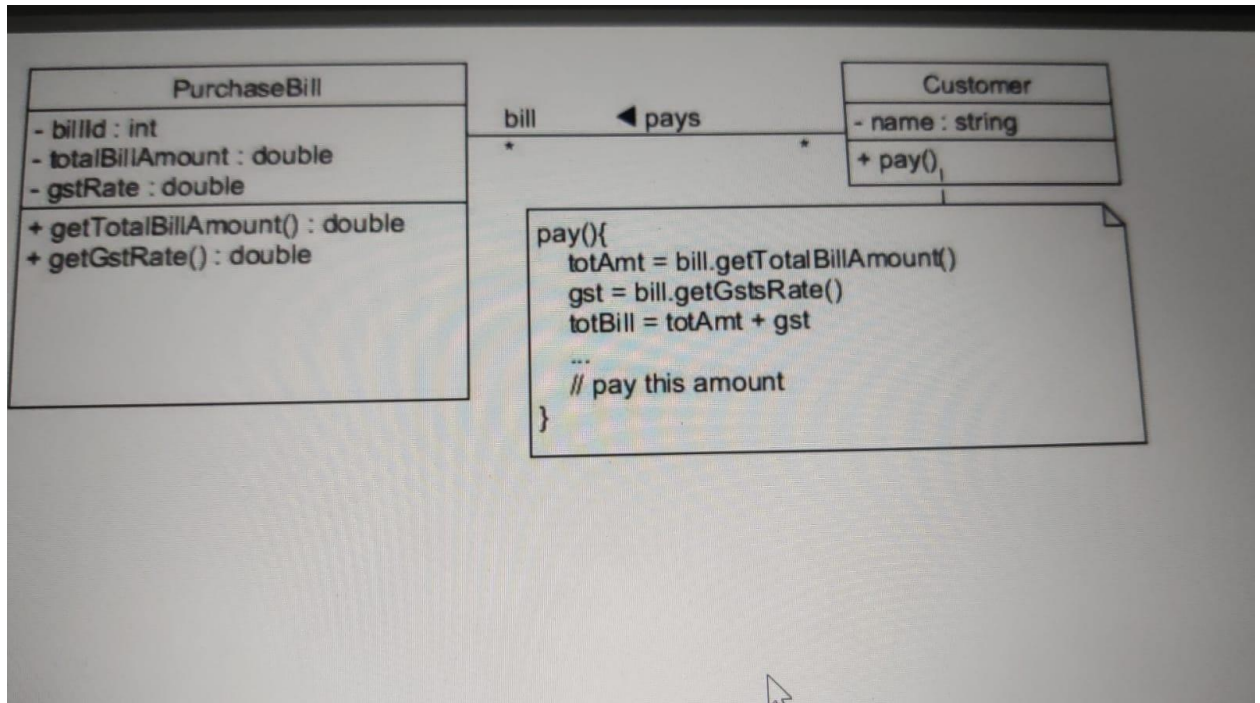
- Class "car" inherits from class "Vehicle". Both class have method implemented for start(). Which OO principles are demonstrated here.
 - Overloading
 - Overriding
 - Rectification
 - None
- If method in class admin are accessing data of class Employee. Which OO principles are violated here.
 - Overriding
 - Overloading
 - Abstraction
 - Encapsulation
- Student register for 4 subject for university exam. Which of the following relationship represent best.



→A

- At the stage of class design. Which of the following aspect are consider.
 - Data structure and Algorithm
 - Nouns Extracted from requirements statement
 - Implementation Language specific classes
 - None

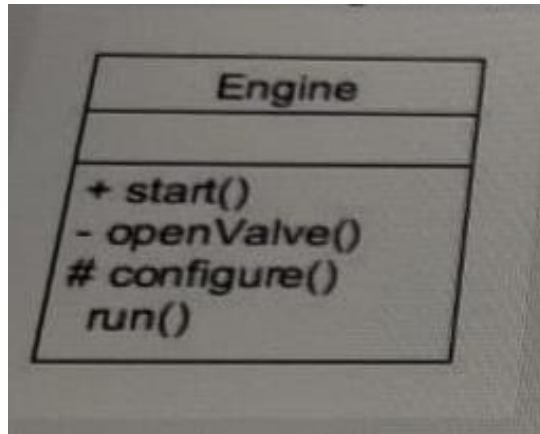
5. Which oo concepts clearly violated



- a. Abstraction
 - b. Data hiding
 - c. Encapsulation
 - d. Economy of Expression
6. Which of the advantages of OO development over the Algo decomposition
- a. Generate short code
 - b. Saving in decomposition time
 - c. Reliance to change -----(Hold)
 - d. None
7. State model talks about which of the following aspect?
- a. How diff model communicate with each other
 - b. How multiple classes are related to each other
 - c. Explain seq of opr happening in app
 - d. None
8. Domain mode contain with of the following type of classes
- a. Classes belong to domain vocab
 - b. Only abstract classes
 - c. Classes from implementation lang lib
 - d. None

9. Class department contain method countProfessor() and countProfessor(criteria:int).
- a. Overloading
 - b. Overriding -----x
 - c. Polymorphism
 - d. None -----x
10. If we modeling class "Vehicle",car[rtonumver] and Scooter[rtonumber].Appropriate way to model classes.
- a. All these three classes are independent and have no relation with each other
 - b. Vehicle, Scooter and Car have cyclic composition with each other
 - c. Class Vehicle is a base class with rtoNum as attribute and class car and Scooter are derived classes.
 - d. RTONumber is base class and Vehicle, Car, Scooter are derived classes
11. Laptop contain Display as the integral part (it can not be detached from laptop) What is the best way to model
- a. Laptop is container and display is contained object with composition relation between two
 - b. Display in base class and Laptop is derived class
 - c. Laptop is base class and Display is derived class
 - d. None of the above
12. Which one of the following aspect is NOT covered in class model?
- a. which are abstract classes
 - b. Which methods are overridden in child class
 - c. Which class can invoke operation of which other class?
 - d. When specific operation was invoked by other class
13. A CEO's office has multiple telephone lines for communication. The lines can be reallocated to others if re....
- a. Aggregation
 - b. Composition
 - c. Inheritance
 - d. None

14. Which attribute is represented as private



- a. Start()
- b. openValve()
- c. Configure()
- d. Run()

15. Browser web page contain 4 radio buttons. When page is closed all 4 buttons are destroyed. What is the relation between browser and buttons

- a. Aggregation
- b. Composition
- c. Inheritance
- d. None

16. In class dig if class is type of other class. Which type of relationship represents it best?

- a. Association
- b. Inheritance
- c. Aggregation
- d. Composition

17. Which one of the following statements is correct for Inheritance relationship?

- a. Base class inherits the properties of derived class
- b. Derived class inherits the properties of base class
- c. Base class and derived class can inherit each other's properties simultaneously
- d. Inheritance relationship does not support inheriting properties.

18. Which type of variables are associated with classes and not the object

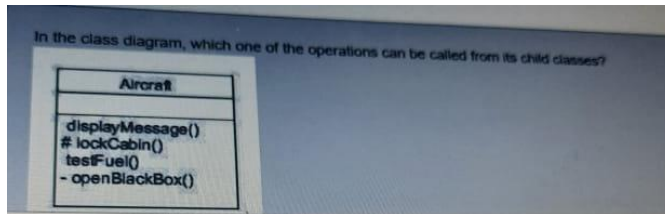
- a. Private
- b. Public
- c. Protected
- d. Static

19. Student can read as many books as they wish from library....

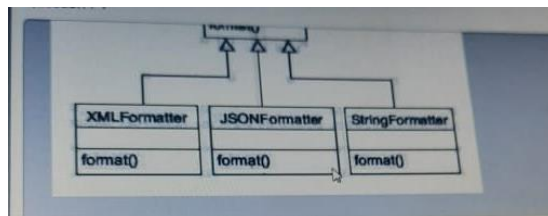
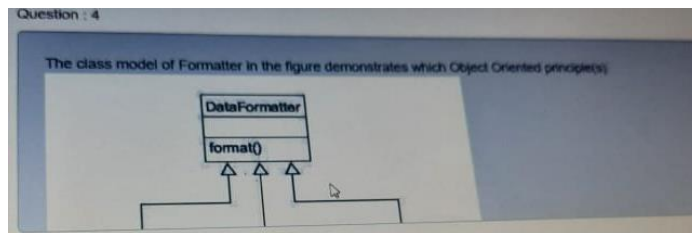
20. which one of the following is identified in domain modelling stage.
- a. Analysis classes and Classes which are not part of domain vocabulary but are required for application
 - b. Implementation Language specific structures
 - c. Analysis classes and Methods which are not mentioned in the problem statement, but we feel those are necessary for application
 - d. Analysis classes obtained from nouns is the problem statement
21. in a class diagram, when we show multiplicity, which of the following is an INVALID multiplicity value?
- a. 1,2,6,7,9
 - b. -3..3
 - c. *
 - d. 15..20
22. For writing a robust code which of the following guidelines need to be followed
- a. All base class attributes need to be static
 - b. Only base class need to have private attributes
 - c. every attribute of class must be private For formation hiding
 - d. The methods and attributes of all classes need to be private.
23. In Object oriented (Iterative) development cycle which following methodology is followed?
- a. We follow waterfall model
 - b. We take all requirements (irrespective of its volume) at once and complete analysis, then we complete design on
 - c. We ignore all the requirements and start implementation
 - d. We take a selected set of few requirements, do the modelling design and implementation, deployment. Then take next set we address all requirements.
24. In a real world, "House" may have large number of (possible) features, but while consider..... this is Object Oriented field?
- a. Data Hiding
 - b. Encapsulation = Data hiding+ abstraction
 - c. Abstraction
 - d. Polymorphism
25. Which of the following activities represent Abstraction in Object Orientation?
- a. identifying correct abstract class
 - b. Creating class with all abstract methods
 - c. Ignoring inessential details
 - d. Convert concrete class into pure abstract class

26. Polymorphism means
- a. Ignoring unessential details
 - b. Unique pair of Operation and implementation
 - c. Multiple operations with same implementation
 - d. an operation with different possible implementations
27. Suppose a Bicycle has Handle as its integral part, in which one of the following ways, it can be best modelled in a class diagram?
- a. Bicycle class has composition relationship (as its integral part) with class Handle:
 - b. Bicycle class contains attribute named handle of type string
 - c. Handle class contains attribute named bicycle of type Bicycle
 - d. The situation can not be modeled
28. "Use case" is used in which of the following models?
- a. State model
 - b. Class model
 - c. Interaction model
 - d. Sequencing model
29. In which one of the following UML diagrams, participants are shown against time line?
- a. Class diagram
 - b. Use case diagram
 - c. Sequence diagram
 - d. Object diagram
30. method travel(src: string, dest: string) in a base class and travel (dest: string) in derived class is a best example of
- a. Runtime Polymorphism
 - b. Overloading
 - c. Overriding
 - d. "Option B" and "Option C" both
31. Term "Actor" is present in which one of the following diagrams?
- a. Class
 - b. Usecase
 - c. State machine
 - d. None
32. In Object Oriented project life cycle, which one of the following principles need to be followed?
- a. platform specific classes are part of domain model
 - b. OO development life cycle follows waterfall model
 - c. Class design needs to be done in analysis domain
 - d. Analysis need to be done in problem domain

33. In this dig, which opr is called from its child class

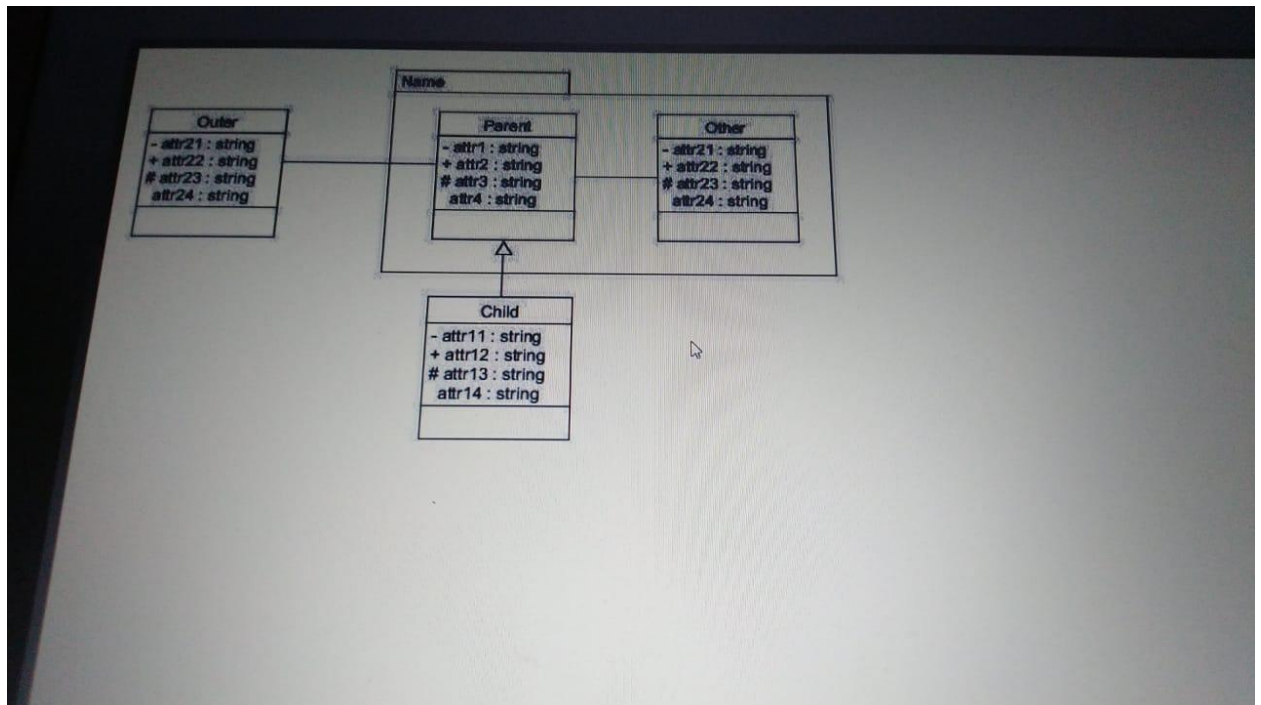


- a. `displayMessage()`
 - b. `lockCabin()`
 - c. `testFuel`
 - d. `openBlackBox()`
34. class model formatter() demo which OO principle



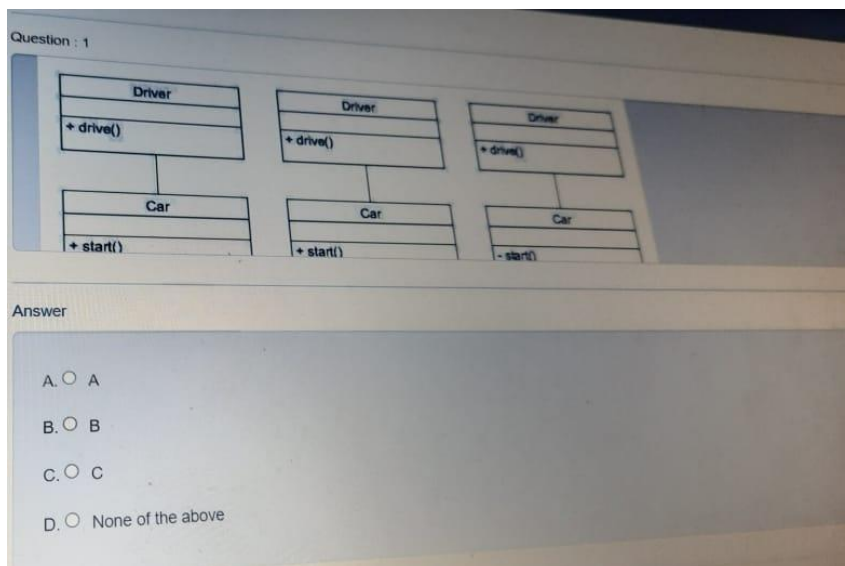
- a. Method Overloading
 - b. Data/Information hiding
 - c. Method Overriding
 - d. All of the above
35. UML how is class represented?
- a. Rounded rectangle with 3 partitions
 - b. Ellipse
 - c. Rectangle with 3 partitions
 - d. Dotted Rectangle with 3 partitions

36. Which statement is true?



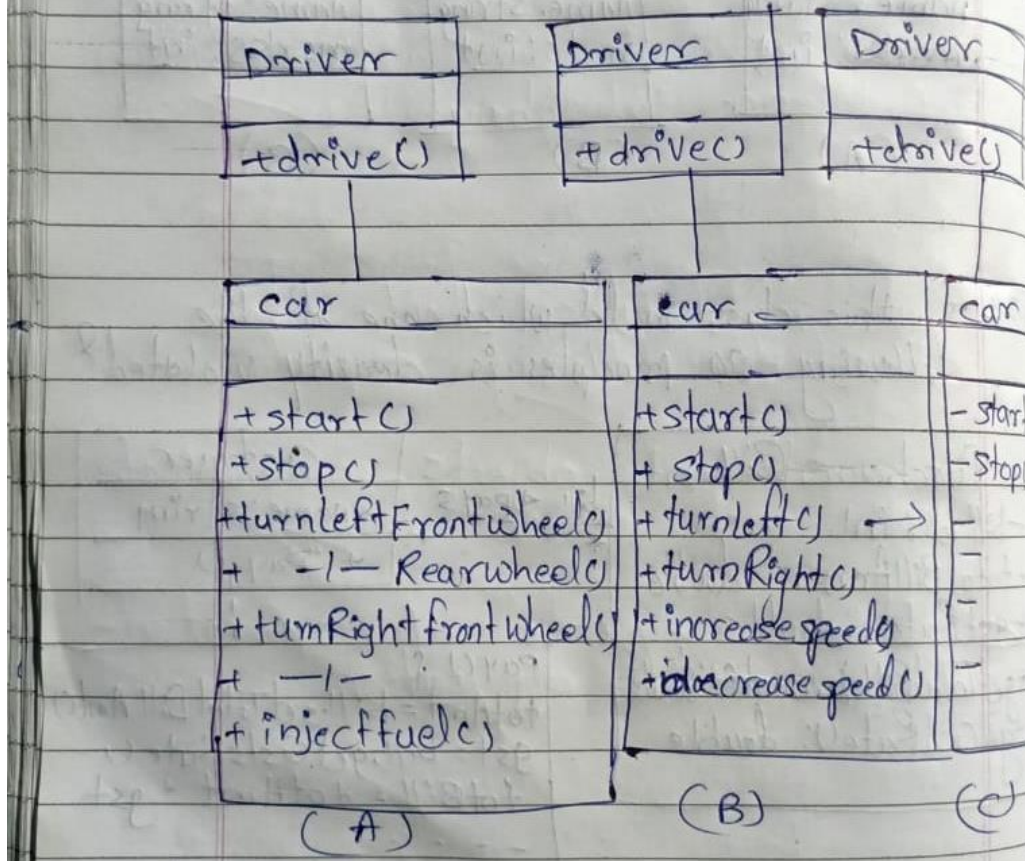
- a. Parent can access attr13
- b. Outer can access attr4
- c. Child can access attr1
- d. None of the above

37. Driver Car



→B

Q.23 Which one of the class models in figure, represent good abstraction of a Car for driver?



38. Which one of the relationships can exist between classes "Clock" and "DigitalClock"

- Aggregation
- Inheritance
- Composition
- None of the above

39. Mr. Natawarial being businessman has three Cars in his house,

His personal Car

His wife's Car

Company Car

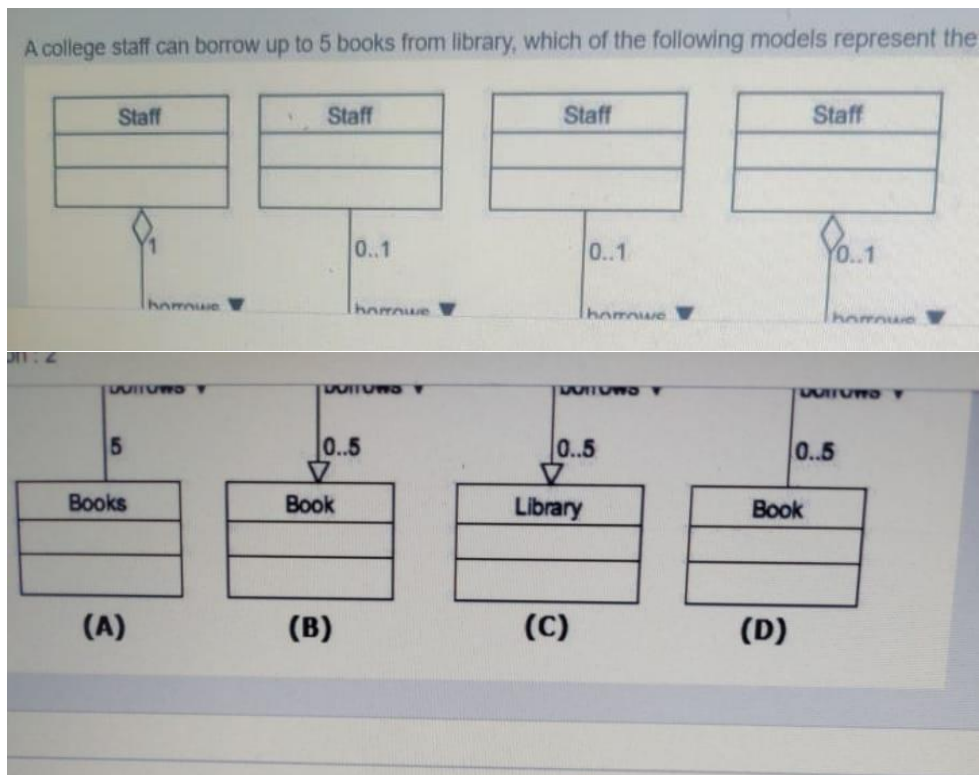
Which of the following is the best way to model this description.

- "Businessman" class is associated with class "Car". "Personal Car", "WifesCar" and "CompanyCar" are instances of class "Car"
- "Businessman" class is associated with class "Car". "Personal Car", "WifesCar" and "CompanyCar" are child classes of "Car" class.
- "Businessman" class is associated with "PersonalCar", "Wifes Car" and "CompanyCar" classes
- All of the above fail to model it

40. Which of the following is a valid attribute of a complex system

- a. Lots of independent subsystems
- b. Economy of expression
- c. Well identified and marked primitive layers
- d. None of the above

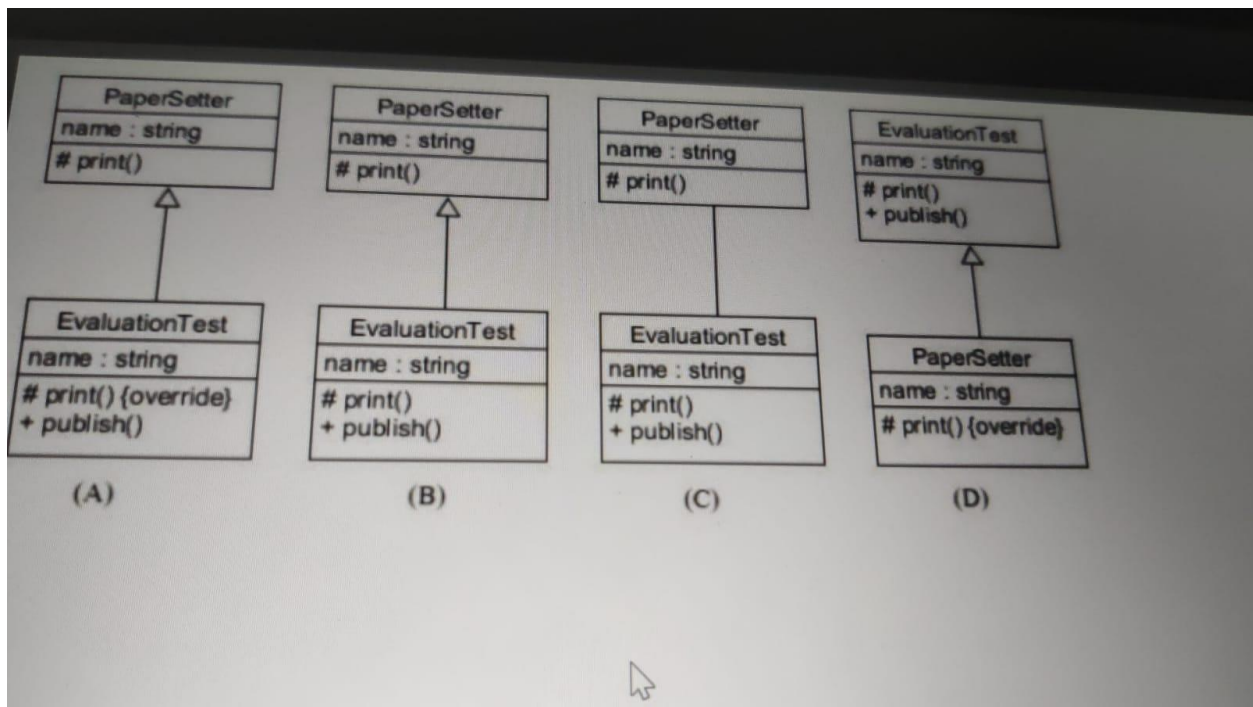
41.



→B

→D xxxxxxxxxxxxxxxxxxxx

42. Papersetter



→A

43. Student

Students can read as many books as they wish from Library. If student reads a book, its mandatory for student to write a review of one page. What is the best way to express the relationships between

Unattempted: 7 / Already Marked: 0

Student

- name : string

reads ▼

Student

Student

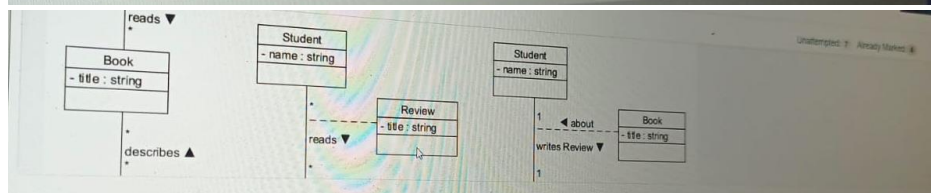
Answer

A. ☐ A

B. ☐ B

C. ☐ C

D. ☐ None of those represent it correctly



describes ▲

Review

- title : string

(A)

Book

- title : string

(B)

Review

- title : string

(C)

Answer

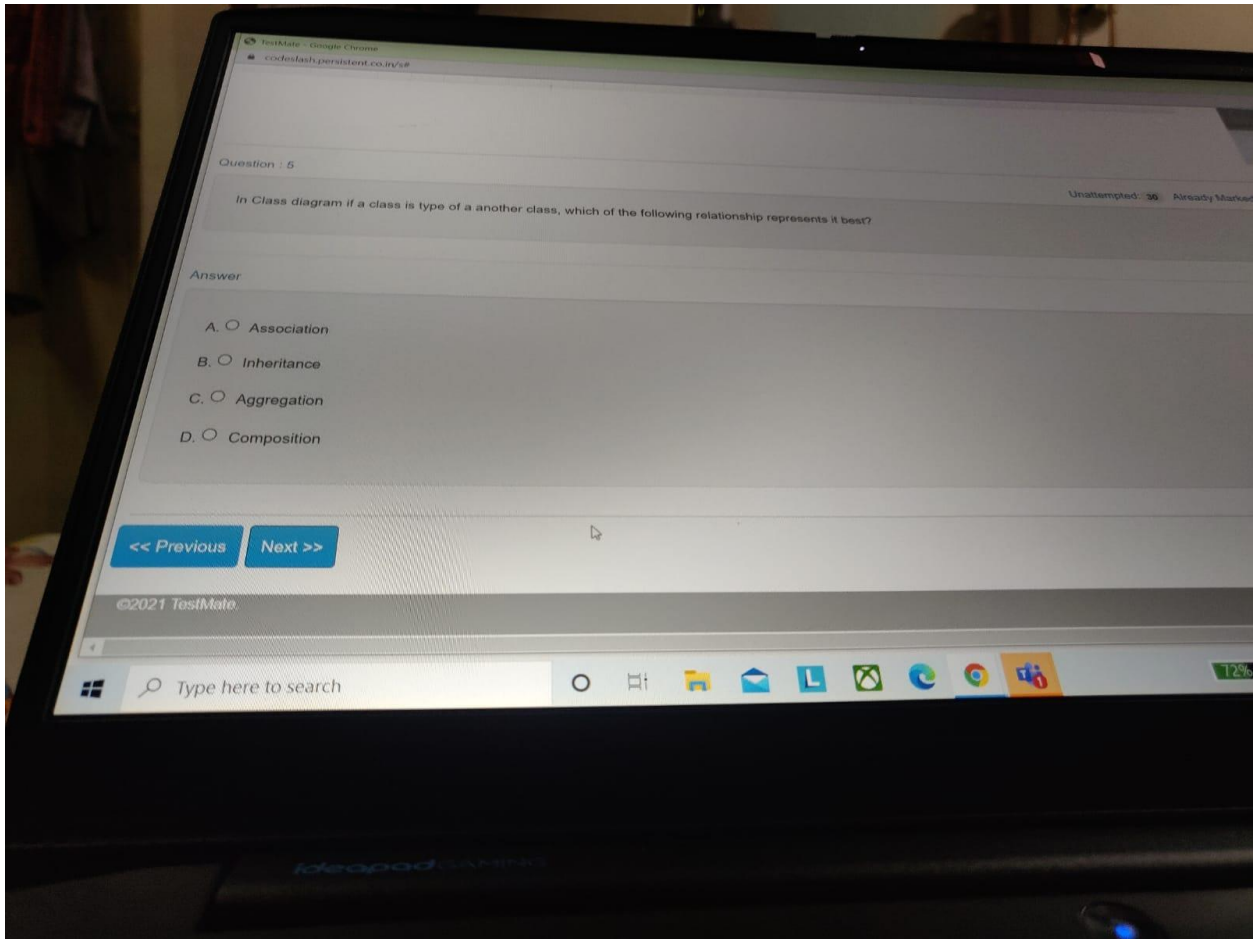
A. ☐ A

B. ☐ B

C. ☐ C

D. ☐ None of those represent it correctly

→B



→B