

**TSP** : Birds A&Z Ltd.  
**Module** : IV  
**Batch** : ESAD-CS/BAZL-M/32/01

**Date** : 26-Jul-16  
**Duration** : 45 min  
**Total Marks** : 45

**Trainee Name** : \_\_\_\_\_

**Trainee ID** : \_\_\_\_\_

**Marks Rewarded:** \_\_\_\_

[Each question carries 2 marks]

Q1. Which one is the symbol of control analysis class stereotype?

- A.  B.  C.  D. 

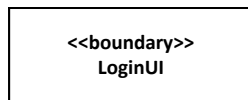
Q2. What is correctly shows an abstract class?

- A.  B.  C.  D. 


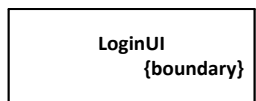


Q3. Which one denotes an asynchronous message?

- A.  B.  C.  D. 

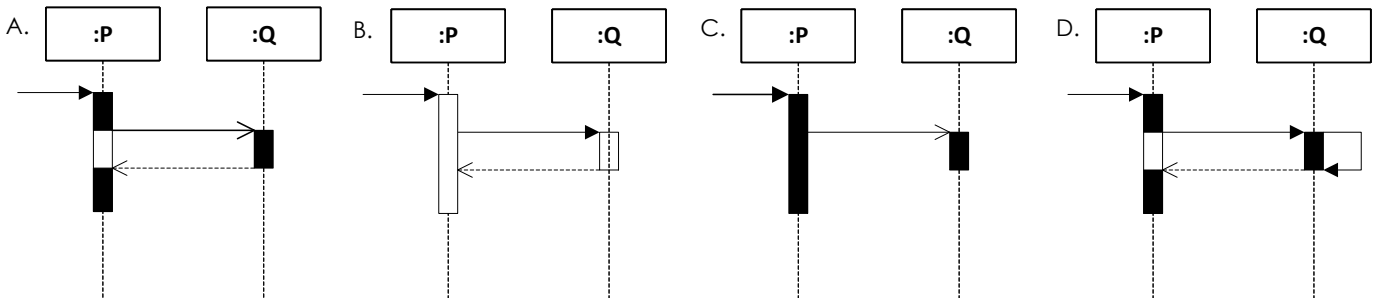
Q4. Look at class shown below



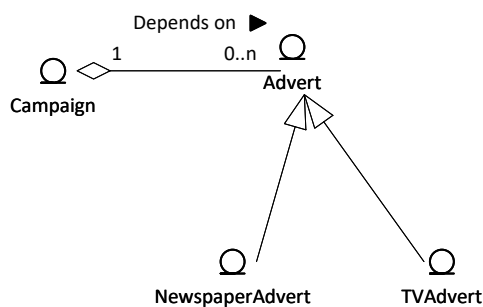
The above can alternatively be shown as \_\_\_\_\_

- A.  B.  C.  D. 

Q5. Which one is concurrent activity in sequence diagram?

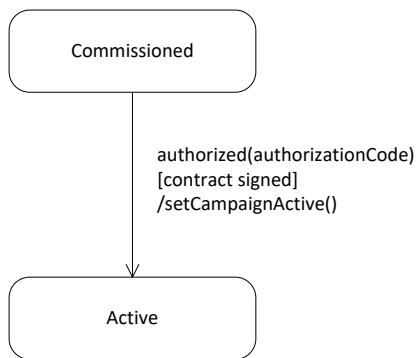


Q6. The following diagram shows \_\_\_\_\_.



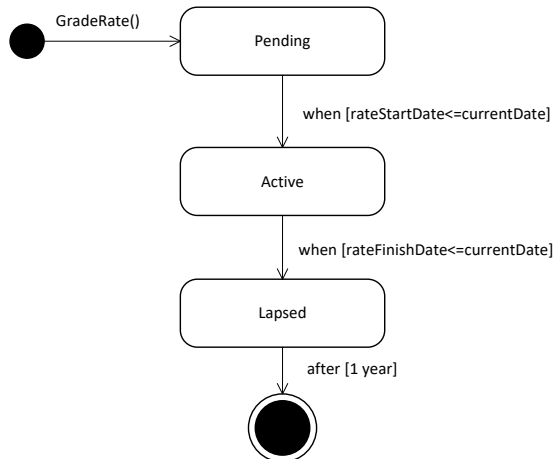
- A. generalization and aggregation  
 B. generalization and composition  
 C. composition and aggregation  
 D. composition and specialization

Q7. In the following state chart fragment, which one is action-expression?



- A. authorized(authorizationCode)
- B. [contract signed]
- C. /setCampaignActive()
- D. There is no action-expression

Look at the following state chart.



Q9. In the above state chart, which one is elapsed-time event?

- A. GradeRate()
- B. when [rateStartDate<=currentDate]
- C. when [rateFinishDate<=currentDate]
- D. after [1 year]

Q10. Look at the diagram below



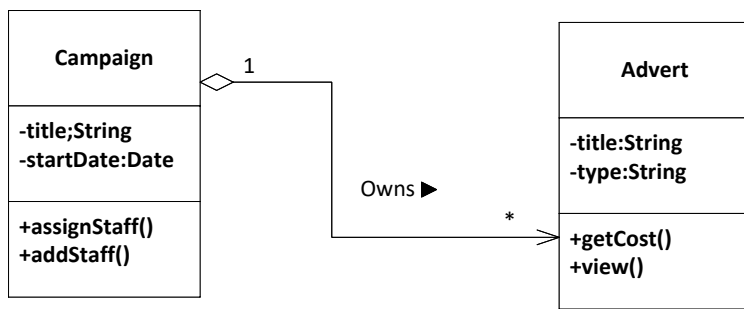
The diagram above shows \_\_\_\_\_.

- A. class dependency
- B. class association
- C. package dependency
- D. deployment architecture

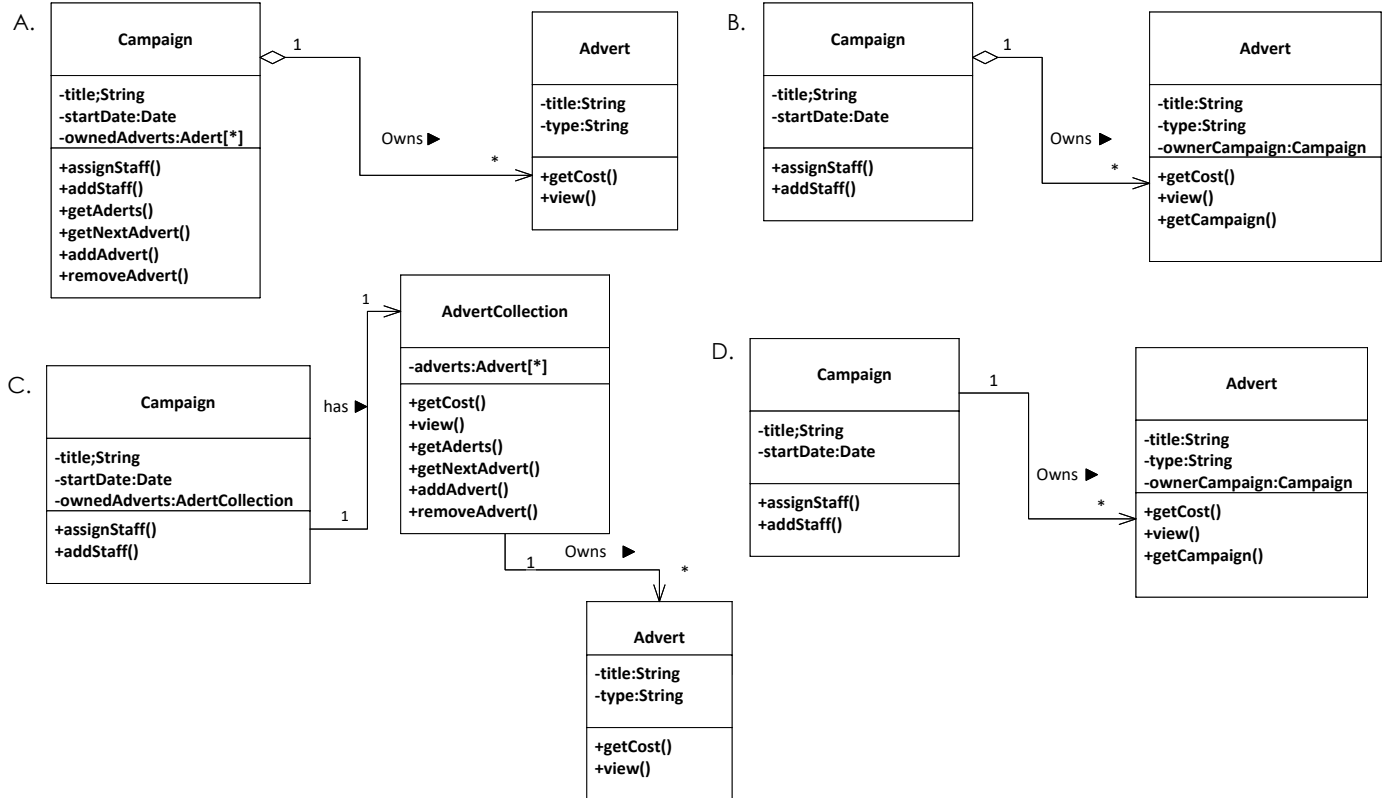
Q11. The Bank account class have an operation named credit that is passed to the amount being credited and the operation has a Boolean return value. Which one valid operation signature of the operation?

- A. Boolean credit (Money amount)
- B. credit (amount as Money) returns Boolean
- C. credit (amount: Money): Boolean
- D. Boolean: credit (amount: Money)

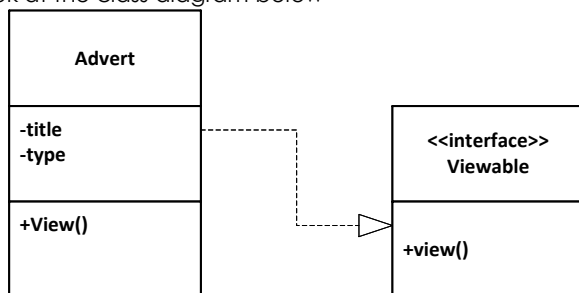
Q12. Look at the association below



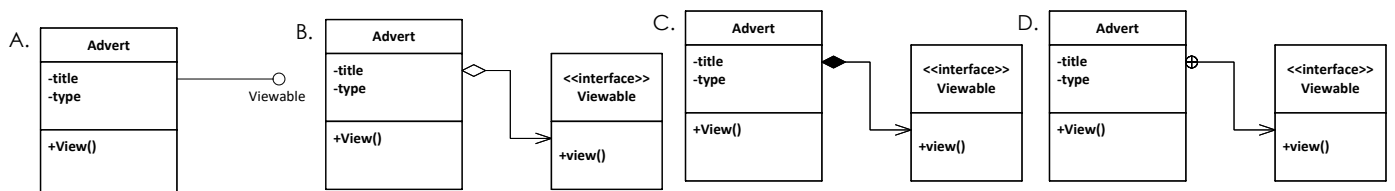
Which one is the best possible implementation of the above one-to-many association?



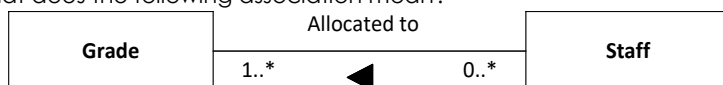
Q13. Look at the class diagram below



Which of the following is alternative notation of the above class?



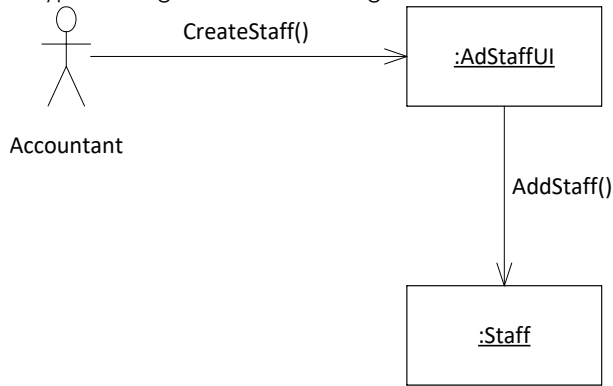
Q14. What does the following association mean?



- A. Every Staff member may be allocated to one or more grades, while a grade may have zero, one or more staff allocated to it.
- B. Every Staff member must be allocated to one or more grades, while a grade may have zero, one or more staff allocated to it.
- C. Every Staff member may be allocated to one or more grades, while a grade must have zero, one or more staff allocated to it.

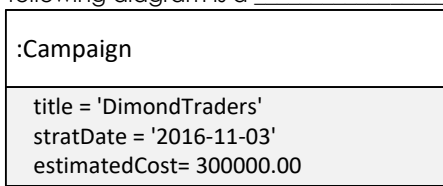
- D. Every Staff member must be allocated to one or more grades, while a grade must have zero, one or more staff allocated to it.

Q15. What type of diagram is the following?



- A. Activity diagram
- B. Sequence diagram
- C. Collaboration diagram
- D. State chart

Q16. The following diagram is a \_\_\_\_\_.



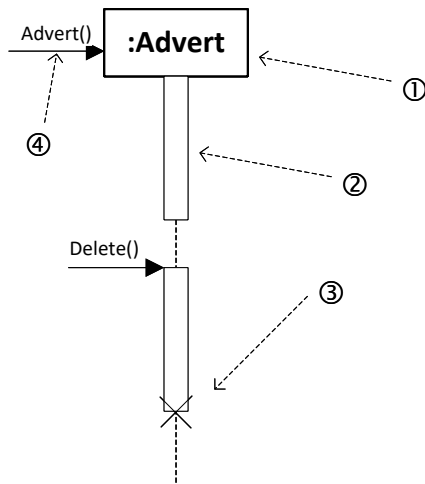
- A. Named instance of campaign class
- B. Anonymous instance of campaign class
- C. Named instance of campaign class with attribute values
- D. Anonymous instance of campaign class with attribute values

Q17. Which does the symbol indicates?



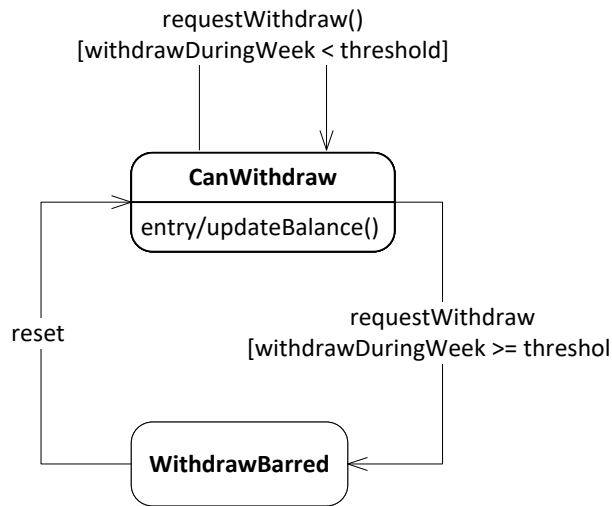
- A. Package
- B. Object
- C. Component
- D. Aggregation

Q18. Which part of the following sequence diagram denotes object deletion?



- A. ①
- B. ②
- C. ③
- D. ④

Q19, Q20 & Q21 are based on the following diagram



Q19. What type of diagram is it?

- A. Activity diagram
- B. Sequence diagram
- C. Collaboration diagram
- D. State chart

Q20. Here WithdrawBarred is a \_\_\_\_\_.

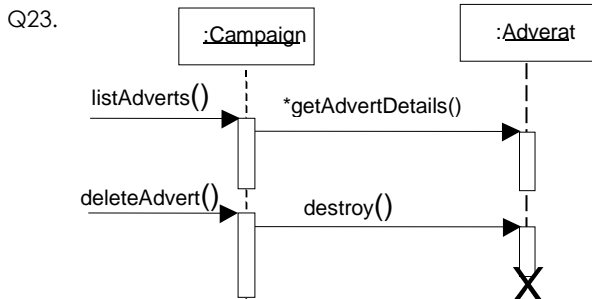
- A. State
- B. Event
- C. Signal
- D. Action

Q21. What does 'entry/updateBalance()' mean in diagram?

- A. updateBlanace() event causes the transition to the CanWithdraw state
- B. updateBlanace() action is performed on entering the CanWithdraw state
- C. updateBlanace() action is performed continuously during the span of while object is in the CanWithdraw state
- D. updateBlanace() event causes the transition from CanWithdraw state to WithdrawBarred state

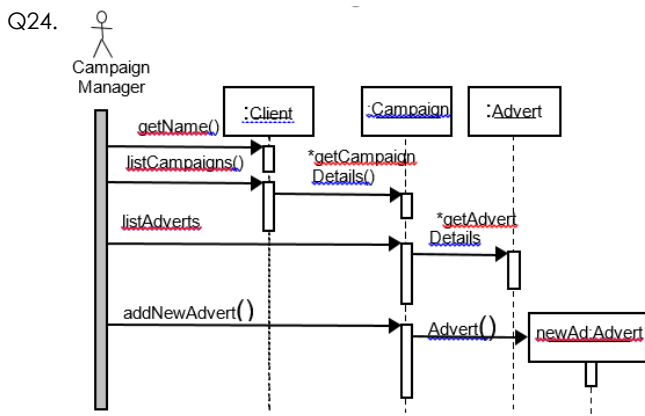
Q22. How many message types are there in sequence diagram?

- A. One
- B. Two
- C. Three
- D. Four



What does the asterisk sign (\*) denote?

- A. Lifeline destruction
- B. Object destruction
- C. Sequence destruction
- D. Message Iteration (loop)

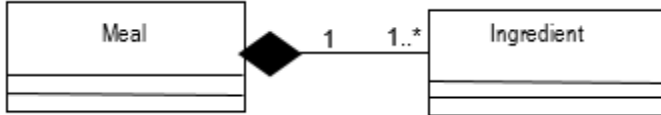


Above is a \_\_\_\_\_ diagram.

- A. activity

- B. sequence
- C. statechart
- D. Collaboration

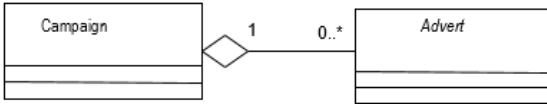
Q25.



The diagram shows \_\_\_\_

- A. Composition
- B. Aggregation
- C. Association
- D. Link

Q26.



The diagram shows \_\_\_\_

- A. Composition
- B. Aggregation
- C. Association
- D. Link

Q27.

Class Name <i>Client</i>	
Responsibilities	Collaborations
<i>Provide client information.</i> <i>Provide list of campaigns.</i>	<i>Campaign provides campaign details.</i>

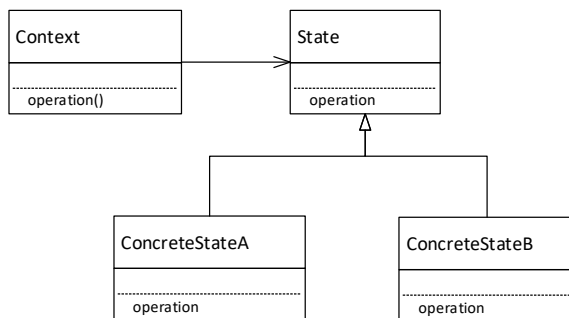
This is a \_\_\_\_

- A. Class diagram
- B. Instance diagram
- C. USE Case
- D. CRC Card

Q28. If two objects can be linked their class have an association.

- A. True
- B. False

Q29.



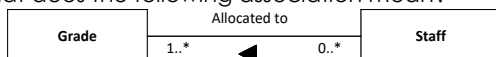
The diagram shows \_\_\_\_

- A. General form of composite pattern
- B. General form of singleton pattern
- C. General form of state pattern
- D. General form of mvc pattern

Q30. Singleton pattern is a \_\_\_\_

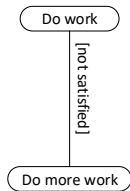
- A. Creational pattern
- B. Structural pattern
- C. Behavioral pattern
- D. Analysis Pattern

Q31. What does the following association mean?



- A. Every Staff member may be allocated to one or more grades, while a grade may have zero, one or more staff allocated to it.
- B. Every Staff member must be allocated to one or more grades, while a grade may have zero, one or more staff allocated to it.
- C. Every Staff member may be allocated to one or more grades, while a grade must have zero, one or more staff allocated to it.
- D. Every Staff member must be allocated to one or more grades, while a grade must have zero, one or more staff allocated to it.

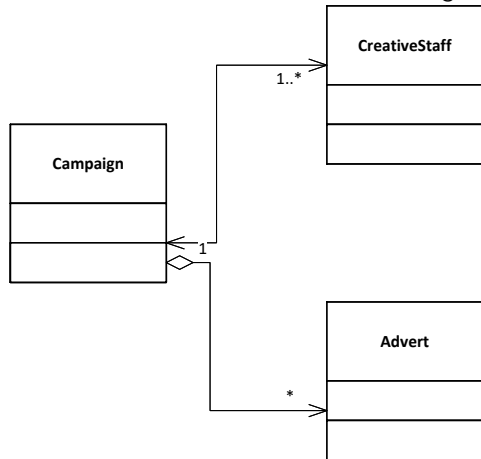
Q32. Look at diagram



What is the text in angle brackets ([ ]) called?

- A. Decision
- B. Guard condition
- C. Activity
- D. Transition

Q33 and Q34 are based on the following diagram



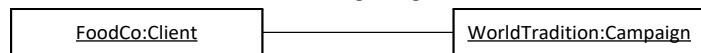
Q33. The diagram shows \_\_\_\_\_ between Campaign and Advert class and also between Campaign and Creative Staff class?

- A. links
- B. association
- C. dependency
- D. cohesion

Q34. According the diagram, one-way association exits between\_\_\_\_\_.

- A. Campaign and Advert class
- B. Campaign and CreativeStaff class
- C. CreativeStaff and Advert class
- D. Action

Q35.The solid line in the following diagram is \_\_\_\_\_.



- A. association
- B. link
- C. dependency
- D. communication

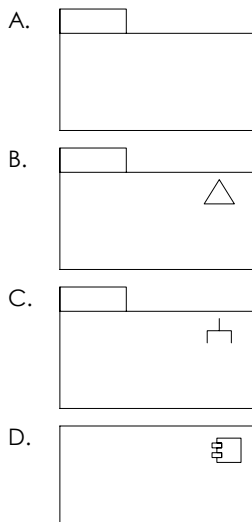
Q36. Use Case B may provide additional functionality to Use Case A for a given condition. How would you model it?

- A.
- B.
- C.
- D.

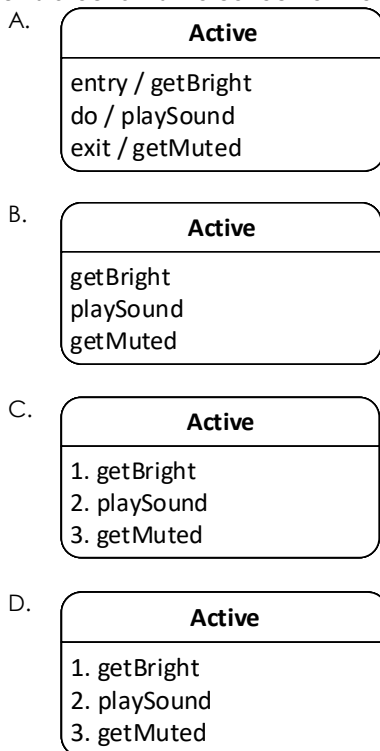
Q37. Use Case A always use functionality of Use Case B. How would you model it?

- A.
- B.
- C.
- D.

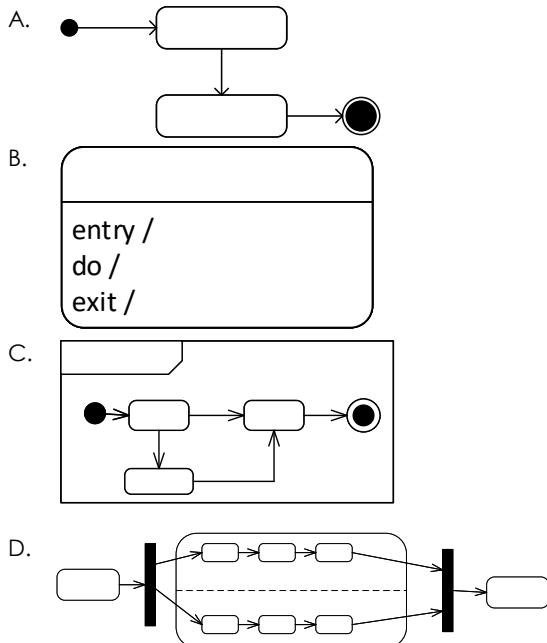
Q38. Which one represents a Model?



Q39. When an object enters into Active state, it triggers `getBright()`. While the object remains in the Menu Visible state, the activity causes a sound clip to be played, and when object exists the state triggers `getMuted()`. Which statechart is the correct for the scenario?



Q40. Which one is the concurrent state?

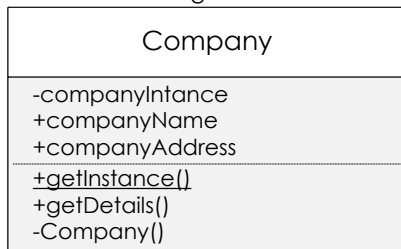




Q41. Which one is not an internal action of a state?

- A. do
- B. entry
- C. exit
- D. exclude

Q42. Look at the class diagram



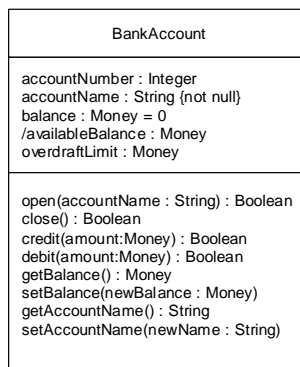
The class is an example of

- A. Composite pattern
- B. Singleton pattern
- C. State pattern
- D. Anti-pattern

Q43. Which of the following correct way of specifying an attribute?

- A. name : type-expression = initial-value {property-string}
- B. name : type-expression = initial-value [property-string]
- C. type-expression : name = initial-value {property-string}
- D. type-expression : name = initial-value [property-string]

Q44. Which attribute of the following class is derived one?

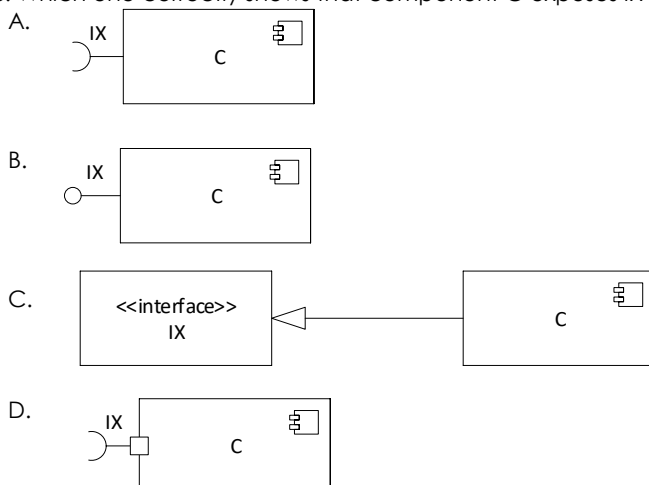


- A. accountNumber
- B. accountName
- C. balance
- D. availableBalance

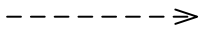
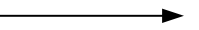
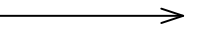
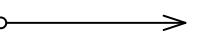
Q45. Which symbol denotes protected visibility?

- A. +
- B. -
- C. #
- D. ~

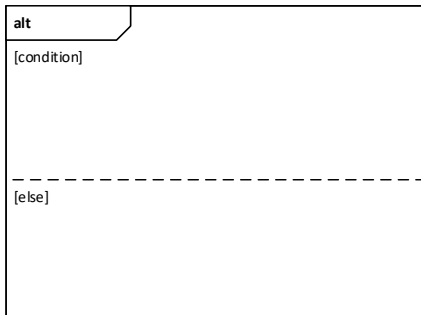
Q46. Which one correctly shows that component C exposes IX interface?



Q47. Which one is creational message?

- A. 
- B. 
- C. 
- D. 

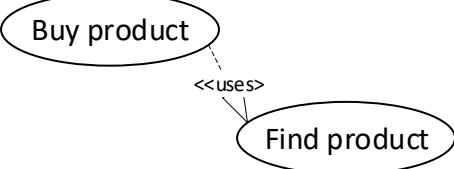
Q48. What does the following denotes?



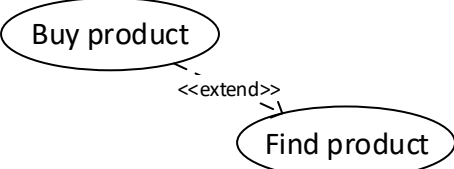
- A. Alternate fragment
- B. Optional fragment
- C. Another fragment
- D. Package

Q49. The "Buy product" use case often uses the "Find product" use case in order to allow an actor to select the product to buy.

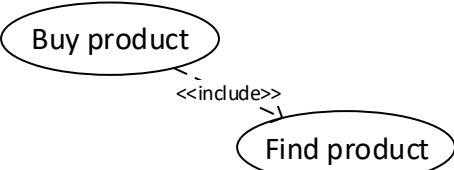
Which one models the fact correctly?

- A. 

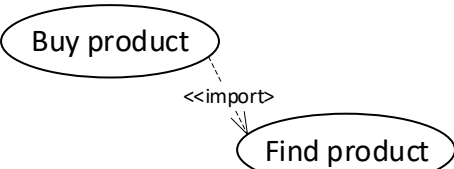
```

graph TD
    A((Buy product)) -.->|<<uses>>| B((Find product))
  
```
- B. 

```

graph TD
    A((Buy product)) -.->|<<extend>>| B((Find product))
  
```
- C. 

```

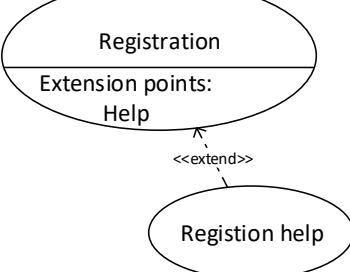
graph TD
    A((Buy product)) -.->|<<include>>| B((Find product))
  
```
- D. 

```

graph TD
    A((Buy product)) -.->|<<import>>| B((Find product))
  
```

Q50. The "Registration" use is supplemented by the "Registration help" use case if an actor opts for help.

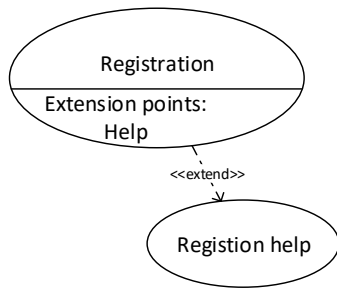
Which one models the fact correctly?

- A. 

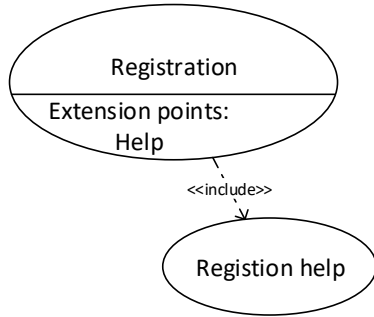
```

graph TD
    A([Registration  
Extension points:  
Help]) -.->|<<extend>>| B([Registration help])
  
```

B.



C.



D.

