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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Software Engineering (course)



| Course outline | Week 8 : Assignment 8 |
|---|---|
| | Your last recorded submission was on 2024-09-16, 13:00 Due date: 2024-09-18, 23:59 IST. IST |
| About NPTEL () | 1) Consider the following sentence: "A square is a polygon". From an analysis of the sentence, identify the |
| How does an NPTEL online course | relations between the two classes Square and Polygon that can be inferred from the sentence. a. Inheritance b. Association c. Aggregation d. Composition |
| work? () | e. Dependency |
| Week 0 () | a. b. |
| Week 1 : () | ○ c. ○ d. |
| Week 2 : () | ○ e. |
| Week 3 : () | 2) 1 point |
| Week 4 : () | Consider the sentence: A college has many Students. Which one of the following best characterizes the relationship that exists between the College class and the Student class? |
| Week 5 : () | a. Inheritance b. Specialization |
| Week 6 : () | c. Association d. Composition e. Dependency |
| Week 7 : () | a. |
| Week 8 : () | ○ b. |
| Lecture 36 : Aggregation/ Composition | ○ c.○ d.○ e. |

and dependency relations (unit? unit=73&lesso n=74)

- Lecture 37: InterationModelling (unit? unit=73&lesso n=75)
- Lecture 38:
 Development
 of Sequence
 diagrams
 (unit?
 unit=73&lesso
 n=76)
- Lecture 39:
 State-Machine diagram (unit? unit=73&lesso n=77)
- Lecture 40 :
 An Object Oriented
 design
 process (unit?
 unit=73&lesso
 n=78)
- Lecture Material For Week 8 (unit? unit=73&lesso n=79)
- Quiz: Week 8: Assignment 8(assessment? name=194)
- Feedback Form For Week 8 (unit? unit=73&lesso n=80)

Week 9: ()

Download Videos ()

3) 1 point

Consider the following sentence: "100 paisa is one rupee". From an analysis of the sentence, identify the relation between the two classes Paisa and Rupee that can be inferred from the sentence.

- a. Inheritance
- b. Association
- c. Aggregation
- d. Composition
- e. Dependency
- a.
- Ob.
- O c.
- d.
- e.

4) 1 point

Consider the following sentence: "Students live in hostels". From an analysis of the sentence, identify the relation between the two classes Student and Hostel that can be inferred from the sentence.

- a. Inheritance
- b. Association
- c. Aggregation
- d. Composition
- e. Dependency
- a.
- b.
- O c.
- Od.
- e.

5) 1 point

A collaboration diagram is used by the designers for its capability to effectively depict which one of the following types of information?

- a. The decision structure among the classes
- b. The looping structure
- c. The attribute values of the objects
- d. Structural information such as class association
- e. Times at which collaboration occurs among classes
- a.
- Ob.
- Ос.
- d.
- Ое.

6) 1 point

Text Transcripts ()

Books ()

Live Interactive Session () How is an external system represented in a use case diagram?

- a. By using a specific icon available for this purpose
- b. By using text description
- c. By using object constraint language (OCL)
- d. By stereotyping the actor icon
- e. By inheriting a special icon from the actor icon

| - | $\overline{}$ | | |
|---|---------------|---|--|
| (|) | а | |

Ob.

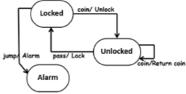
Ос.

d.

○ e.

7) 1 point

Consider the following state chart diagram modelling the behaviour of a turnstile gate. Based on the modelled behaviour, what would happen if a coin is inserted into the turnstile gate when the turnstile gate is in the unlocked state?



- a. The turnstile gate allows one person to pass and remains in the unlocked state
- b. The turnstile gate sounds an alarm and remains in the unlocked state
- c. The turnstile gate remains in the unlocked state
- d. The turnstile gate returns the coin and remains in the unlocked state
- e. The turnstile gate returns the coin and becomes locked
- f. The turnstile gate becomes locked



○ b.

Ос.

 \bigcirc d.

Ое.

Of.

8) 1 point

Which of the following features of the state chart model are primarily responsible towards reduced number of states in the finite state modelling of a given problem?

- a. Nested states
- b. Concurrent states
- c. History state
- d. Broadcast messages
- e. Actions on state entry and exit

✓ a.

✓ b.

□ c.

| □ d. □ e. |
|---|
| |
| 9) 1 point Consider the following statement: "India charge harden with Polister Paneladash and China." |
| Consider the following statement: "India shares borders with Pakistan, Bangladesh, and China." Which one of the following is the best way to implement this in an object-oriented program? |
| a. Define a unary association on Country class |
| b. Let Country class implement the Border interface |
| c. Define Country class as an aggregate of Border classes |
| d. Define a dependency of Country class on Border class |
| e. Define a quaternary association relation between the Countries India, Pakistan, |
| Bangladesh, and China |
| ○ a. |
| ○ b. |
| ○ c . |
| ○ d. |
| ● e. |
| € e. |
| 10) 1 point |
| In an informal (natural language) description of a programming problem, which parts of the |
| description are likely represent objects? |
| a. All of the nouns and all of the verbs. |
| h All of the course and course of the accura |
| b. All of the verbs and some of the nouns. |
| c. Some of the nouns. |
| |
| c. Some of the nouns.d. Some of the verbse. Some of the nouns and some of the verbs |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs a. b. |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs a. b. |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs a. b. c. |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs a. b. c. d. c. d. |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs a. b. c. d. |
| c. Some of the nouns. d. Some of the verbs e. Some of the nouns and some of the verbs a. b. c. d. c. d. e. You may submit any number of times before the due date. The final submission will be |