

Class test (#8)

Total points 5/5 ?

Date: November 27, 2020

Maximum marks: 5 (To be normalized to 3)

Expected time to answer 5 questions: 5-7 minutes

Total time: 10 minutes

Note: Please be available in the class to receive the quiz link after submitting this class test

The respondent's email address (**f20181119@pilani.bits-pilani.ac.in**) was recorded on submission of this form.

0 of 0 points

ID *

2018A7PS1119P

Name *

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Questions 1-5

5 of 5 points



Consider the following program written in Prolog programming language. 1/1
What is the result of query ?-student(johanna, Y), graduate(johanna). ? [The first question mark represents the command prompt of the prolog]

```
1 student(nora, eth).  
2 student(keiv, twente).  
3 undergraduate(keiv).  
4 research(nora).  
5 graduate(kelly).  
6 student(kelly, kuleuven).  
7 student(johanna, twente).  
8 graduate(johanna).
```

- ☐ None of these
- ☐ none of these
- ☐ No result is possible due to error in query formation using a comma between the predicates student(johanna, Y) and graduate(johanna).
- ☒ Y = twente.
- ☐ twente

The scope resolution operator represented by two consecutive colon signs is 1/1
used for reexportation to allow access to superclass for

- ☒ subclass with private derivation
- ☐ subclass with public derivation
- ☐ subclass with protected derivation
- ☐ none of these



Consider the following program written in Prolog programming language. If a query `?- student(X, kuleuven).` is to be answered, which of the following statements is correct?

```
1 student(nora, eth).  
2 student(keiv, twente).  
3 undergraduate(keiv).  
4 research(nora).  
5 graduate(kelly).  
6 student(kelly, kuleuven).  
7 student(johanna, twente).  
8 graduate(johanna).
```

- ☐ The program is incomplete and the inference code should be part of the program. The query results in an error
- ☐ None of these
- ☐ The program contains rules and facts, and is complete to answer the query as `X = kelly`
- ☐ The rules and facts should not be the part of the program. These should be given as input and the program must have step by step instructions to infer the query.
- ☒ The program contains only facts, and is complete to answer the query as `X = kelly`



Consider the following prolog code. Which of the following is/are used as variable(s) in this program? 1/1

```
1 likes(sam, Food) :- indian(Food), mild(Food).
2 likes(sam, Food) :- chinese(Food).
3 likes(sam, Food) :- italian(Food).
4 likes(john, Food) :- chinese(Food), spicy(Food).
5 likes(john, Food) :- italian(Food), spicy(Food).
6 likes(tom, Food) :- indian(Food), spicy(Food).
7 likes(tom, Food) :- italian(Food), spicy(Food).
8
9 indian(curry).
10 indian(dahl).
11 indian(tandoori).
12 indian(kurma).
13 mild(dahl).
14 mild(tandoori).
15 mild(pizza).
16 spicy(chow_mein).
17 spicy(kurma).
18 spicy(spaghetti).
19 spicy(sweet_and_sour).
20 chinese(chow_mein).
21 chinese(chop_suey).
22 chinese(sweet_and_sour).
23 italian(pizza).
24 italian(spaghetti).
```

- ☒ Food
- ☐ Food, curry, dahl, tandoori, kurma, pizza, chow_mein, spaghetti, sweet_and_sour, chop_suey
- ☐ indian, mild, spicy, chinese and italian
- ☐ curry, dahl, tandoori, kurma, pizza, chow_mein, spaghetti, sweet_and_sour, chop_suey
- ☐ sam, john, tom
- ☐ likes, indian, mild, spicy, chinese and italian
- ☐ none of these



The keywords 'virtual' and 'final' used in C++ and Java respectively

1/1

- ☒ allow the method in C++ to be overridden while restrict the method in Java from being overridden in descendant class.
- ☐ restrict the methods in both the languages from being overridden in descendant class
- ☐ allow the methods in both the languages to be overridden in descendant class
- ☐ restrict the method in C++ from being overridden while allow the method in Java to be overridden in descendant class.
- ☐ None of these

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