

1

Question: Prolog is primarily used for:

- A) Web development
- B) Logic programming and Artificial Intelligence
- C) Mobile app development
- D) Game development

Correct Answer: B

2

Question: Which of the following is NOT a Prolog environment?

- A) SWI-Prolog
- B) GNU Prolog
- C) PyCharm
- D) ECLiPSe

Correct Answer: C

3

Question: What is the correct file extension for Prolog files?

- A) .py
- B) .pl
- C) .java
- D) .cpp

Correct Answer: B

4

Question: The statement `cat(tom).` in Prolog represents a:

- A) Rule
- B) Query

C) Fact

D) Variable

Correct Answer: C

5 (Fill in the blank)

Question: In Prolog, the symbol `:-` means "_____".

A) and

B) or

C) if

D) not

Correct Answer: C

6 (Match the pairs)

Question: Match the Prolog terms with their descriptions:

| Term | Description |
|----------|------------------------------------|
| ----- | ----- |
| 1. Fact | a. Conditional statement |
| 2. Rule | b. Asks Prolog questions |
| 3. Query | c. Basic assertion about the world |

A) 1-a, 2-b, 3-c

B) 1-c, 2-a, 3-b

C) 1-b, 2-c, 3-a

D) 1-c, 2-b, 3-a

Correct Answer: B

Question: Prolog uses which mechanism to find solutions by trying different possibilities?

- A) Recursion
- B) Iteration
- C) Backtracking
- D) Branching

Correct Answer: C

8 (Fill in the blank)

Question: To load a Prolog file named "example.pl" in SWI-Prolog, you would use the command `?- _____.`

- A) load(example.pl)
- B) [example.pl]
- C) consult(example.pl)
- D) include(example.pl)

Correct Answer: B