# 17 Lecture - CS301

## **Important Mcqs**

- 1. Which of the following data types is a reference type in Java?
  - a) int
  - b) double
  - c) String
  - d) char

#### Answer: c) String

- 2. What does a reference variable in Java hold?
  - a) The actual value of an object
  - b) The memory address of an object
  - c) The size of an object
  - d) The type of an object

## Answer: b) The memory address of an object

- 3. When an object is assigned to a reference variable, what is stored in the variable?
  - a) A copy of the object
  - b) A reference to the object
  - c) The value of the object
  - d) None of the above

## Answer: b) A reference to the object

- 4. What is the difference between a reference variable and a primitive variable?
  - a) A reference variable holds the actual value of an object, while a primitive variable holds a reference to an object.
  - b) A reference variable holds a reference to an object, while a primitive variable holds the actual value of a data type.
  - c) A reference variable holds a value of an object, while a primitive variable holds a reference to an object.
  - d) There is no difference between the two.

Answer: b) A reference variable holds a reference to an object, while a primitive variable holds the actual value of a data type.

- 5. In Java, can a reference variable be null?
  - a) Yes
  - b) No

Answer: a) Yes

- 6. What happens when a reference variable is assigned to another reference variable?
  - a) Both variables hold a reference to the same object
  - b) Both variables hold a copy of the same object
  - c) The original variable is deleted
  - d) None of the above

## Answer: a) Both variables hold a reference to the same object

- 7. What is the syntax for creating a reference variable in Java?
  - a) int x = 5;
  - b) double y = 3.14;
  - c) String s = "Hello";
  - d) char c = 'a';

#### Answer: c) String s = "Hello";

- 8. What happens when a reference variable is passed as a parameter to a method in Java?
  - a) The method receives a copy of the object
  - b) The method receives a reference to the object
  - c) The method receives the actual value of the object
  - d) None of the above

#### Answer: b) The method receives a reference to the object

- 9. What is the default value of a reference variable in Java?
  - a) null
  - b) 0
  - c) false
  - d) None of the above

#### Answer: a) null

- 10. Can a reference variable be used to access static methods in Java?
  - a) Yes
  - b) No

Answer: a) Yes