

# 17 Lecture - CS301

## Important Subjective

- 1. What is a reference variable in Java?**  
Answer: A reference variable in Java is a variable that holds the memory address of an object.
- 2. How is a reference variable different from a primitive variable in Java?**  
Answer: A reference variable holds a reference to an object, while a primitive variable holds the actual value of a data type.
- 3. What is the default value of a reference variable in Java?**  
Answer: The default value of a reference variable in Java is null.
- 4. Can a reference variable be reassigned to a different object in Java?**  
Answer: Yes, a reference variable can be reassigned to a different object in Java.
- 5. How does Java handle passing a reference variable as a parameter to a method?**  
Answer: Java passes the reference to the object held by the reference variable as a parameter to the method.
- 6. Can a reference variable be used to access static methods in Java?**  
Answer: Yes, a reference variable can be used to access static methods in Java.
- 7. How does Java handle garbage collection for objects referenced by reference variables?**  
Answer: Java's garbage collector automatically frees the memory allocated to objects that are no longer referenced by any reference variable.
- 8. What is the difference between an instance variable and a reference variable in Java?**  
Answer: An instance variable is a variable declared in a class, while a reference variable is a variable declared in a method or block that holds a reference to an object.
- 9. Can a reference variable be used to access private members of a class in Java?**  
Answer: No, a reference variable cannot be used to access private members of a class in Java.
- 10. How can we check if a reference variable is referring to an object or is null in Java?**  
Answer: We can check if a reference variable is referring to an object or is null in Java by using the null check operator (==).