

# 18 Lecture - CS301

## Important Subjective

- 1. What is a reference variable in Java?**  
Answer: A reference variable is a variable that holds the memory address of an object in Java.
- 2. Can multiple reference variables refer to the same object in Java?**  
Answer: Yes, multiple reference variables can refer to the same object in Java.
- 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. How does Java handle garbage collection for objects referenced by reference variables?**  
Answer: Java's garbage collector automatically frees up memory allocated to objects that are no longer being referenced by any reference variable.
- 5. Can a reference variable be null in Java?**  
Answer: Yes, a reference variable can be null in Java.
- 6. 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.
- 7. 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.
- 8. What is the difference between a reference variable and a primitive variable in Java?**  
Answer: A reference variable holds the memory address of an object, while a primitive variable holds the actual value of a data type.
- 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 null in Java?**  
Answer: We can use the == operator to check if a reference variable is null in Java.