

7 Lecture - CS201

Important Subjective

1. **What is a do-while loop?**

Answer: A do-while loop is a type of loop structure in programming that executes a block of code at least once before checking a condition to determine if the loop should continue.

2. **What is the syntax for a do-while loop?**

Answer: The syntax for a do-while loop is:

```
do {  
  // loop body  
} while (condition);
```

3. **How does the do-while loop differ from other loop structures?**

Answer: The do-while loop ensures that the loop body is executed at least once, even if the condition is initially false, whereas other loop structures may not execute the loop body at all if the condition is false from the beginning.

4. **What happens if the condition of a do-while loop is false?**

Answer: If the condition of a do-while loop is false, the loop will exit after executing the loop body at least once.

5. **How can you exit a do-while loop immediately?**

Answer: You can use the break statement to exit a do-while loop immediately.

6. **How can you skip the current iteration of a do-while loop and move on to the next one?**

Answer: You can use the continue statement to skip the current iteration of a do-while loop and move on to the next one.

7. **Can a do-while loop be nested inside another loop?**

Answer: Yes, a do-while loop can be nested inside another loop.

8. **What is an infinite loop?**

Answer: An infinite loop is a loop structure that executes indefinitely because the loop condition is never false.

9. **How can you prevent an infinite loop from occurring in a do-while loop?**

Answer: You can prevent an infinite loop from occurring in a do-while loop by ensuring that the loop condition eventually becomes false.

10. **What is the difference between a do-while loop and a while loop?**

Answer: The main difference between a do-while loop and a while loop is that the loop body of a do-while loop is executed at least once, whereas the loop body of a while loop may not be executed at all if the condition is false from the beginning.