1. What are the Conditional Operators in Java?

Ans - Conditional operators in Java include `if`, `else if`, and `else`, which help control the flow of the program based on conditions.

2. What are the types of operators based on the number of operands?

Ans - Operators can be unary (1 operand), binary (2 operands), or ternary (3 operands).

3. What is the use of Switch Case in Java programming?

Ans - The `switch` statement is used to perform different actions based on different conditions. It provides an alternative to using multiple `if-else` statements.

4. What are the priority levels of arithmetic operations in Java?

Ans - The priority levels for arithmetic operations in Java follow the PEMDAS rule: Parentheses, Exponents, Multiplication and Division (left to right), Addition and Subtraction (left to right).

5. What are the conditional Statements and types of conditional statements in Java?

Ans - Conditional statements in Java include `if`, `if-else`, `if-else if-else`, and `switch`, allowing you to execute different code blocks based on conditions.

6. What is the syntax of the if Statement?

Ans –

if (condition) {

// code to execute if condition is true

}

7. What are the 3 types of iterative statements in Java?

Ans - The 3 types of iterative loop statements in Java are `for`, `while`, and `do-while`.

8. Write the difference between for and do-while loops?

Ans - In a `for` loop, the initialization, condition check, and increment are part of the loop structure. In a `do-while` loop, the loop body executes at least once before the condition is checked.

9. Write a program to print numbers from 1 to 10.

Ans - for (int i = 1; i <= 10; i++) {

System.out.println(i);

}