Q. what are the conditional operators in java?

1. **Conditional Operators in Java: **

   Java has the following conditional operators:

   - Equality: `==`

   - Inequality: `! =`

   - Greater than: `>`

   - Less than: `<`

   - Greater than or equal to: `>=`

   - Less than or equal to: `<=`

Q. what are the types of operators based on the number of operands?

2. **Types of Operators based on the Number of Operands: **

   - Unary Operators: Operate on one operand (e.g., ++, --)

   - Binary Operators: Operate on two operands (e.g., +, -, *, /)

   - Ternary Operator: Operates on three operands (e.g.? :)

What is the use of switch case in java programming?

3. **Use of Switch Case in Java Programming: **

   The `switch` statement in Java is used for multi-way branch control. It evaluates an expression and executes the case whose value matches the evaluated expression. It provides an alternative to multiple `if-else` statements.

What are the priority levels of arithmetic operations in java?

4. **Priority Levels of Arithmetic Operations in Java: **

   The priority levels of arithmetic operations in Java follow the PEMDAS/BODMAS rule:

   - Parentheses

   - Exponents

   - Multiplication and Division (left to right)

   - Addition and Subtraction (left to right)

What are the conditional statements and use of conditional statements in java?

5. **Conditional Statements and Use in Java: **

   Conditional statements in Java include:

- `if`: Executes a block of code if a given condition is true.

- `else`: Executes a block of code if the `if` condition is false.

- `else if`: Used for multiple conditional branches.

What is the syntax of if else statement?

6. **Syntax of if-else Statement: **

```java
if (condition) {
    // code to be executed if the condition is true
} else {
    // code to be executed if the condition is false
}
```

What are the three types of iterative statement in java?

7. **Three Types of Iterative Statements in Java: **

   - `for` loop

   - `while` loop

   - `do-while` loop

Write the difference between for loop and do while loop?

8. **Difference Between for Loop and do-while Loop: **

   - `for` loop is entry-controlled, and the loop variable is initialized, tested, and updated in a single line.

   - `do-while` loop is exit-controlled, and the condition is evaluated after the loop body, guaranteeing the execution of the loop body at least once.

I. Write a program to print numbers from 1 to 10?

9. **Program to Print Numbers from 1 to 10 in Java: **

```java
public class Print Numbers {
    public static void main (String [] rags) {
        for (int I = 1; I <= 10; I++) {
            System.out.println(I);
```

```
    }
  }
}
```

This simple program uses a `for` loop to iterate from 1 to 10 and prints the numbers.