

1- What are the conditional operators in Java?

Ans- In Java, conditional operators check the condition and decide the desired result on the basis of both conditions.
There are three types of the conditional operator in Java:

- Conditional AND
- Conditional OR
- Ternary Operator

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

Ans- Operators in Java can be classified into 5 types based on the number of operands:

- Arithmetic Operators
- Assignment Operators
- Relational Operators
- Logical Operators
- Unary Operators
- Bitwise Operator

3- What is the use of Switch case in Java programming?

Ans- The switch statement is a control flow statement that allows to execute different blocks of code depending on the value of an expression. The switch statement evaluates the value of an expression and compares it to the values specified in each case label. If a match is found, the code block associated with that case label is executed.

The switch statement can be used as an alternative to multiple if-else statements.

4- What are the priority levels of arithmetic operation in Java?

Ans- First to last : 1.(), 2.* / % , 3. + -

5- What are the conditional statements and use of conditional statements in Java?

Ans- In Java, conditional statements are used to execute different blocks of code depending on whether a condition is true or false. There are two types of conditional statements in Java: if-else statements and switch statements.

6- What is the syntax of if else statement ?

Ans-

```
if(condition/expression)
{
    statement body;
}
else
```

```
{
    statement body;
}
```

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

Ans- The three types of iteration constructs are:

For loop: Executes a set of statements a fixed number of times.

while loop: Repeats a set of statements while a given condition is true.

Do-while loop: Repeats a set of statements at least once and then continues to repeat as long as a given condition is true.

8- Write the difference between for loop and do-while loop?

Ans- For loop: A for loop is used to iterate a set of statements a fixed number of times. It consists of three parts: initialization, condition, and update. The initialization

initializes the loop variable, the condition checks if the loop should continue, and the update changes the value of the loop variable after each iteration.

Syntax:- for (initialization; condition; update)
 {
 // statements to be repeated
 }

Do-while loop: A do-while loop is similar to a while loop, except that the condition is checked at the end of the loop body instead of the beginning. This means that the loop body is always executed at least once, even if the condition is initially false.

Syntax: do {
 // statements to be repeated
 } while (condition);

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

Ans- public class PrintNums {
 public static void main(String[] args){

 int a = 1;
 int b = 10;
 while(a<=b)
 {
 System.out.println(a);
 a++;
 }

 }

}