Operators and Loops

1.What are conditional operators in Java?

In Java, conditional operators check the condition and decides the desired result on the basis of both conditions.

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

Types of Operators in Java:

Java supports many operators just like C and C++. Operators are divided into 3 categories depending upon the number of operands they work on.

- Unary Operator
- It operates on only 1 operand
- For example: ++, –, !, ~
- Binary Operators
- It operates on 2 operands
- For example: &&, %, /, ||
- Conditional/Ternary Operator
- It operates on 3 operands

3.What is the use of switch case in Java Programming?

A switch statement allows a variable to be tested for equality against a list of values. Each value is called a case, and the variable being switched on is checked for each case.

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

Operator	Precedence
postfix	expr++ expr--
unary	++expr --expr +expr -expr ~ !
multiplicative	* / %
additive	+ -
shift	<< >> >>>
relational	< > <= >=
instanceofequality	== !=
bitwise AND	&
bitwise exclusive OR	^
bitwise inclusive OR	|
logical AND	&&
logical OR	||
ternary	? :
assignment	= += -= *= /= %= &= ^= |= <<= >>= >>>=

5.What are conditional statements & use of conditional statements in Java?

Conditional statements are mostly used in decision-making scenarios which means these statements take a decision on the basis of some conditions. The conditional statements are also referred as branching statements because the program takes a decision based on the result of the assessed condition.

6.What is the syntax of if else statement?

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

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

The java programming language provides a set of iterative statements that are used to execute a statement or a block of statements repeatedly as long as the given condition is true. The iterative statements are also known as looping statements or repetitive statements. Java provides the following iterative statements.

- while statement
- do-while statement
- for statement
- for-each statement

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

for loop provides a concise way of writing the loop structure. Unlike a while loop, a for statement consumes the initialization, condition and increment/decrement in one line thereby providing a shorter, easy to debug structure of looping.

do while loop is similar to while loop with the only difference that it checks for the condition after executing the statements.

9.Write a Program to print numbers from 1 to 10?

```
Public class Numbers
    {
    public static void main(String[] args)
    {
            for (int i=0; i<=10;i++)
            {
            System.out.println(i);
            }
    }
```