

OPERATORS AND LOOPS ASSIGNMENT

Q.1 What are conditional operators in java?

Ans. Conditional operators check the condition and decide the desired result on the basis of both conditions.

There are 3 conditional operators:-

- Conditional AND — &&
- Conditional OR — ||
- Ternary operator — ?:

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

Ans. There are 3 types of operators based on number of operands:

- Unary operator - One operand
- Binary operator - Two operand
- Ternary operator - Three operand

Q.3 What is the use of Switch case in java programming?

Ans. The Java *switch statement* executes one statement from multiple conditions. It is like an if-else-if ladder statement.

Syntax:

```
switch(expression){  
    case value1:  
        //code to be executed;  
        break;  
    case value2:  
        //code to be executed;  
        break;  
    default:  
        code to be executed if all cases are not matched;  
}
```

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

Ans. * / % — left to right associativity

+ - — left to right associativity

Q.5 What are conditional statements and use of conditional statements in Java?

Ans. Conditional statements are the statements which are used when we want to specify when a particular block of code is executed. There are conditions on what basis a block is executed .

Ex. if-else conditional statements

```
if(condition){  
    // code  
}else{  
    // code  
}
```

Q.6 What is the syntax of an if-else statement?

Ans. Syntax:-

```
if(condition){  
    // code  
}else{  
    // code  
}
```

Example:-

```
Int age=20;
if(age>=18){
    System.out.println("Adult");
}else{
    System.out.println("Kid");
}
```

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

Ans. Three types of iterative statements in Java are:-

- while

Syntax:

```
while(condition){
    // body
    // update
}
```

- do-while

Syntax:

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

- for

Syntax:

```
for(initialization;condition;update){ }
```

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

Ans. The while loop in java executes one or more statements after testing the loop continuation condition at the start of each iteration. The do-while loop, however, tests the loop continuation condition after the first iteration has completed.

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

Ans.

```
J printNumbers.java > printNumbers > main(String[])
1 public class printNumbers {
    Run | Debug
2     public static void main(String[] args){
3         int n=10;
4         for(int i=1;i<=n;i++){
5             System.out.print(i+" ");
6         }
7     }
8 }
9
```

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```
[Running] cd "c:\Users\dell6\OneDrive\Desktop\JAVA WI
DESIGN\CODE\" && javac printNumbers.java && java prin
1 2 3 4 5 6 7 8 9 10
[Done] exited with code=0 in 1.358 seconds
```