

# Operator And Loop Assignment

## Assignment Solution

### Q1.What are the conditional operators in java ?

**Ans.** Conditional Operators in Java are used to work on conditions. It is a unique operator used in place of 'If-else' statements.

### Q2. What are the types of operators based on the number of operands?

- **Ans.** Arithmetic Operators
  - Unary Operators
  - Assignment Operator
  - Relational Operators
  - Logical Operators
  - Ternary Operator
  - Bitwise Operators
  - Shift Operators
  - instance of operator

### Q3.What is the use of Switch case in java programming ?

**Ans.** The switch case in java is used to select one of many code blocks for execution.

### Q4. What are the priority levels of arithmetic operation in Java?

**Ans.** Parentheses, Exponents, Multiplication and Division (from left to right), Addition and Subtraction (from left to right).

### Q5. What are the conditional Statements and use of conditional State,ements in Java?

**Ans.** logical conditions from mathematics:

- Less than:  $a < b$
- Less than or equal to:  $a \leq b$
- Greater than:  $a > b$

- Greater than or equal to: `a >= b`
- Equal to `a == b`
- Not Equal to: `a != b`

Java has the following conditional statements:

- Use `if` to specify a block of code to be executed, if a specified condition is true
- Use `else` to specify a block of code to be executed, if the same condition is false
- Use `else if` to specify a new condition to test, if the first condition is false
- Use `switch` to specify many alternative blocks of code to be executed

**Q6. What is the syntax of if else statements ?**

**Ans.** `if(condition){`

1. `//code if condition is true`
2. `}else{`
3. `//code if condition is false`
4. `}`

**Q7. What are the 3 types of iterative statements in java ?**

**Ans.**

- 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.

**Q8. write the difference between for loop and do-while loop?**

**Ans.** 1. For Loop -:

1. Statement(s) is executed once the condition is checked.
2. It might be that Statement(s) gets executed zero times.
3. Initialization may be outside or In Condition box.
4. `for ( init ; condition ; iteration )`  
`{ statement (s); }`

2. Do-While loop -:

1. Condition is checked after the statement(s) is executed.
2. Statement(s) is executed at least once.
3. Initialization may be outside or within the loop.

```
4. do { statement(s); }  
    while (condition);
```

**Q9. write a program to print numbers from 1 to 10.**

**Ans.**

```
import java.util.Date;
```

```
public class HelloWorld {  
    public static void main(String[] args) {  
        int i;  
        for (i=1;i<=10;i++)  
            System.out.println(i);  
    }  
}
```