

## Assignment - 6 [Operators and Loops]

---

### 1. What are the Conditional Operators in Java?

Conditional operators in java are used to work only when the certain condition of the operator is met in regard with the condition already set. Conditional operators like 'if' 'else' and 'else if' are used to execute code blocks on specified conditions, enabling decision making in the program.

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

Operators can be categorized as unary(1 operand), binary(2 operands), and ternary(3 operands) based on the number of operands they operate on.

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

Switch case statements allow selective execution of code based on the value of the expression, making it useful for handling multiple possible conditions efficiently. This is better than using 'if' incase there are multiple values and the condition depends on a single variable.

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

In java, arithmetic operations follow the BODMAS/BIDMAS rule, which defines the priority order as Brackets, orders(exponents), Division and Multiplication(left- to - right) and Addition and Subtraction (left- to -right)

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

Conditional statements are used to assign follow in java according to condition. Conditional statements like 'if', 'else', 'else-if' are used to control the flow of a program based on specified conditions, enabling different actions to be taken under different circumstances.

### 6. What is the syntax of if else statement?

```
if(condition){
//code to execute in case the condition is true
}
else{
//code to execute in case the condition is false
}
```

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

There are three types of iterative statements in java. 'for', 'while', 'do-while', which allows to repeat a block of code based on a certain conditions.

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

For loop executes code based on a condition, typically with an initial value, condition and increment.

Do- while loop executes code at least once and then continues as long a specified contion is true.

**9. Write a program to print numbers from 1 to 10?**

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