

Operators and Loops Assignment Questions

Assignment Questions

Q1. What are the conditional operators in java?

The conditional operator are also known as 'ternary operators'. It is used to make decisions based on condition. The conditional take three operands and operate to value on condition.

//syntax:

condition ? expression1:expression2;

Example : maximum of two numbers.

```
int a= 2 ;  
int b =3 ;  
int max= (a>b)?a:b;  
System.out.println("the maximum of number is :"+max);
```

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

Based on the numbers of operands , there are many types of operators :

1. Unary operators :it works with a single operand.

- Unary plus ('+')
- Unary minus ('-')
- increment ('++')
- decrement ('--')
- Logical complement ('!')

2. Binary operators: it works with a double operand.

- Arithmetic operators (+ , - , * , %)
- Relational operators (== , != , < , > , <= , >=)
- Logical operators (& , || , ^)
- Bitwise operators (& , | , ^ , ~)
- Assignment operators (-= , *= , %=)

3. ternary operators (? a:b;)

Q3.what is the use of switch case in java programming ?

The switch statement in java is used for multi-way branching, allow to perform different actions based on the value of a variable or expression.

It provides an alternative to using multiple “if -else” statement when you have a specific set of values to check against.

//syntax:

```
switch(expression){  
    case 1:  
        Break;  
    case 2:  
        default ;
```

Q4.what are the priority levels of arithmetic operators in java?

The priority level is also known as precedence.

unary operators(+ , -)>multiplicative operators(* , %, /)>additive operator(=, -)>assignment operators(=)

Q5.what are the conditional statements and use of conditional in java?

Conditional operators in java is allows you to control the flow of your program based on certain conditions.

If : it is allow to make decision in your code based on the outcomes of a condition.

else-if() :it is allowed to test additional conditions.

Switch case :it is provide to select one of many block code to be executed, Based on the value of expression.

Q6.what is the syntax of if else statement?

//syntax:

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

Q7.what is the difference between for loop and do-while loop?

For loop :

- condition is checked before iteration.
- Initialization, condition, and iteration are parts of loop

Do -while:

- Condition is checked after iteration

- The loop condition is checked at the end of the loop block.

Q8. write a program to print numbers from 1 to 10 .

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