

Assignment – 2

Q1>What are the conditional operator In java?

Ans == In java the conditional operator is also known as the ternary operator because it takes three operands.it is a shorthand way of writing simple if-else statements and is represented by the following syntax:

Condition? expressionIfTrue : expressionIfFalse;

- 1.the condition is evaluated first.it should be a Boolean expression,meaning it must result in either 'true' or 'false'.
- 2.if the condition evaluates to 'true',the 'expressionIfTrue'is executed and becomes the result of the entire expression.
- 3.if the 'condition' evaluates to 'false',the 'expressionIfFalse' is executed and becomes the result of the entire expression.

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

Ans == the types of operators based on the number of operands are:

- 1.Unary operator:** unary operator work with a single operand.they perform operations on a single value.
- 2.Binary operatoe:** binary operator work with two operands.
- 3.Ternary operator:** the ternary operator is the only operator which work with three operands.

Q3>What is the use of switch case in java programming?

Ans == the switch case statement in java is a control flow construct that provides a convenient way to choose one many possible execution paths based on the value of expression.switch case is primarily used to

simplify multiple 'if-else' condition and make the code more readable when dealing with multiple cases.

Q4>What are the conditional statement and use of conditional statement in java?

Ans == Conditional statement in java are programming construct that allow you to control the flow of execution based on certain conditions. there are two main type of conditional statement in java.

1> If-else statement

2> If-else if-else statement (else-if ladder)

the use of conditional statement in java is crucial for making decisions in our programs. they allow our code to be more dynamic and flexible, enabling you to handle different scenarios and user input effectively.

Q5>What is the syntax of if else statement?

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Ans ==  if () {  
        System.out.println("this the if part");  
    }else{  
        System.out.println("this the else part ");  
    }
```

Q6>How do you compare two string in java?

Ans == in java we can compare two string using different methods depending on what kind of comparison we need.

1> Using the 'equals()' method

2> Using the 'equalsIgnoreCase()' method

3> Using the comparison operator

Q7>What is mutable string in java explain with an example?

Ans == In java a mutable string refers to a string whose content can be changed or modified after its creation. We can change the character in a mutable string.the class that represents a mutable string is 'stringbuilder'

Q10> Where exactly is the string constant pool located in the memory?

Ans == the string constant pool located in the heap area in the memory.