1. What is Conditional operators in Java?

Ans. The conditional operator is also known as the ternary operator. This operator consists of three operands and is used to evaluate Boolean expressions. The goal of the operator is to decide; which value should be assigned to the variable.

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

Ans. Operators are classified into three types on the basis of the number of operands they work on:

1. **Unary Operators:** Operators that work on single operand.
2. **Binary Operators:** Operators that work on two operands.
3. **Ternary Operators:** Operators that work on three operands.

**3.**What is the Use of switch case in java programming?

1. Ans. The switch case in java is used to select one of many code blocks for execution.Break keyword: As java reaches a break keyword, the control breaks out of the switch block. The execution of code stops on encountering this keyword, and the case testing inside the block ends as the match is found.

4. What are the conditional Statements and use of conditional statement in Java?  
Ans. Conditional statements in Java are utilized to make decisions in a program based on some specific conditions. The main constraints are ‘if,’ ‘else,’ and ‘else if.' These statements allow the program to execute different lines of code depending on the scenario, whether a particular condition is true or false. These are vital for controlling the flow of a program that enables the developers to create the logic that is able to respond dynamically to the data or the input, which further helps in making the program more powerful   
5.What is syntax of if else statement?  
Ans. **if**(expression){

//code to be executed if condition is true

}

**else**{

//code to be executed if condition is false

}

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

Ans. Java provides three types of iteration statements:

* for statements
* while statements
* do-while statements

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

Ans.

| **While** | **Do While** |
| --- | --- |
| In while loop condition is checked first and then the statement is executed | In do-while statement is executed at least once thereafter condition is checked |
| It follows top-down approach | It follows bottom-up approach |
| For single statement, we do need to add brackets | In do white brackets are always needed |
| While loop is entry controlled loop | Do while is an exit controlled loop |
| Here “while” keyword is used | Here  “do while” keyword is used |
| If the condition is false initially, the loop body is never executed | The loop body is executed at least once, regardless of the initial condition |