1.What are the conditional operators in java?

Ans: In Java, conditional operators check the condition and decides the desired result based on both conditions.

There are three types of the conditional operator in Java:

- o   Conditional AND
- o   Conditional OR
- o   Ternary Operator

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

Ans: there are 3 types of operators based on the number of operands.

a. Unary Operator
b. Binary Operator
c. Ternary Operator

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

Ans: The switch case in java executes one statement from multiple ones.

For example:

```java
import java.util.Scanner;

public class GradeCalculation {
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter the marks= ");
        int marks = sc.nextInt();

        if(marks >= 90){
            System.out.println("Grade is AA");
        } else if (marks >=80 && marks <=90){
            System.out.println("Grade is A+");
        } else if (marks >=70 && marks <=80){
            System.out.println("Grade is B");
        } else if (marks >=40 && marks <=70){
            System.out.println("Grade is C");
```

```
        } else if (marks >=25 && marks <=40){
            System.out.println("Grade is D");
        } else {
            System.out.println("Failed !!!");
        }

    }
}
```

Output:

Enter the marks= 90

Grade is AA

4. what are the priority levels of arithmetic operation in java?

Ans: operations are: +. -, *, /, %

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

Ans: conditional statements are 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.

6. what is the syntax of if-else statement?

Ans: if(condition1) {

//block of code executed if condition1 is true

} else if(condition2) {

//block of code executed if condition2 is true

} else {

//block of code executed if condition1 & condition2 is false}

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

Ans: for loop, while loop and do-while loop.

8. Difference between for loop and do while loop.

For loop	Do-While loop
Statement(s) is executed once the condition is checked.	Condition is checked after the statement(s) is executed.
It might be that statement(s) gets executed zero times.	Statement(s) is executed at least once.
Initialization may be outside or in condition box.	Initialization may be outside or within the loop.
for loop is entry controlled loop.	do-while is exit controlled loop.
for (init ; condition ; iteration) { statement (s); }	do { statement(s); } while (condition);

9. write a program to print numbers 1 to 10.

```
class number{

    public static void main(String[] args){
        int num = 10;
        for(int i = 1; i <= num; i++){
            System.out.print(i + " ");
        }
    }
}

Output:
1 2 3 4 5 6 7 8 9 10
```