

1. What are the conditional operators in Java?
2. What are the types of operators based on the number of operands?
3. What is the use of Switch case in Java Programming?
4. What are the priority levels of arithmetic operation in java?
5. What are the conditional statements and use of conditional statements in Java?
6. What is the syntax of if-else statements?
7. What are the 3 types of iterative statements in java?
8. Write the difference between for loop and do while loop?
9. Write a program to print numbers from 1 to 10?

1(Ans) . The conditional operator is used when the condition arises from more than one boolean expression . There are 3 types of conditional operators ..

- a. Logical AND
- b. Logical OR
- c. Logical NOT

2(Ans) . There are two types of mathematical operators: **unary and binary**. Unary operators perform an action with a single operand. Binary operators perform actions with two operands.

3(Ans) . Switch statement is used when we have to make a choice between a number of alternatives from a given variable. It works with byte , short , int , long and strings and characters.

4(Ans) . Priority level of arithmetic operators in java are

- 1st * / %
- 2nd + -
- 3rd = .

5(Ans) . Sometimes we want to watch comedy videos on youtube if the day is Sunday. Sometimes we order junk food if it is our friend's birthday in the hostel. You might want to buy an umbrella if it's raining and you have the money. You order the meal if dal or your favourite hindi is listed on the menu. All these are decisions that depend on conditions being met. In „C“ language, too, we must be able to execute instructions on a condition(s) being met. For this reason we use conditional statements.

Example:-

```
public class conditional {
    public static void main(String[] args) {
        int age = 21;
        if (age>=18 && age<=60)
        {
            if (age>=20 && age<=30)
            {
                System.out.println("You are young");
            }
        }
    }
}
```

```

        else if (age>=30 && age<=60)
        {
            System.out.println("You 're adult");
        }
        else
        {
            System.out.println("You are a kid");
        }
    }
    else if (age>=60)
    {
        System.out.println("You are 60+");
    }
    else
    {
        System.out.println("You are a havel");
    }
}
}

```

6(Ans) . The syntax of if else statements in java are..

```

if(condition to be checked)
{
    Statement if condition is true
}
Else
{
    Statement if condition is false
}

```

7(Ans) . There are 3 types of iterative statements in Java...

- a. While loop
- b. Do while loop
- c. For loop

8(Ans) . The difference between for loop and do-while loop are

For loop first initialize then check the condition and then increment or decrement.

Do while loop first executes the program once and then checks the condition.

This is the major difference between for loop and do while loop.

9(Ans) . `public class loopsBasics {`

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