Q1. What are the conditional operators in java?

conditional operators check the condition and decides the desired result on the basis of both conditions.

There are three types of the conditional operator in java.

Operator

Conditional / Logical AND

Conditional / Cogical OR

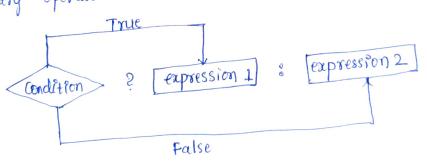
Ternary Operator

Symbol

11

?:

- \* Conditional AND.: It returns true if and only if both expressions are true, else returns false.
- \* Conditional DR: It returns false if and only if both corpressions are false, else returns true.
- \* Ternary Operator: It is used to evaluate boolean expressions



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

Operators in java are the Symbols used for performing specific operations in java.

```
Types of operators in java are:
    1. Asithmetic operators
           *: Multiplication
           1: Division
          ·1·: Modulo
           +: Addition
           -: Subtraction
   2. Unary Operators
          -: Unary Minus
          t: Unary plus
          ++: Increment operator
                · post increment
                · pre- increment
          --: Decrement operator
                · post - decrement
               · pre- decrement
            !: logical not operator
3.
       Assignment operator: =
       compound assignment operator or compound statement:
                   . 10 =
```

```
4. Relational Operator
     == Equal to
     1= Not equal to
      < less than
     <= less than or equal to
       greater than
```

Ternary operator 6. condition? if true: if false

>= greater than or equal to

bituoise operator T. Bitwise AND 8 Bituoise OR Bitwise XOR Bitwise Complement

> Shift operator 22 left shift operator Signed Right shift operator Unsigned Right Shiff Operator.

9. Instance of operator.

8.

A3. What is the use of switch case in java programming?

The switch between is multiway branch statement

It provides an easy way to dispatch execution to different pasts of code based on the value of the expression

94. What are the conditional statements and use of conditional statements in java?

Conditional statements in java are used to make decisions based on Certain conditions. The most common conditional Statements in java are: 4-Else statement, switch statement of ternary operator. These statements allow the program to execute different blocks of code based on Specific Conditions

Q5. What is the Syntax of ly else aftertement?

If (Boolean Expression)

execute the code when Boolean\_Expression is true

state

execute the code.

A6. How do you compare two Strings in java?

In java String equals () method compares the two given

Strings based on the content of the String. If all the contents of both the Strings are Same then it returns true. If any character does not match, then it returns false

```
What is Mulable Bling in java Explain with an example?
    Mutable Strings are those strings whose content can be changed
    Without creating a new object.
    String Buffer and String Builder are mutable versions of String
    in java.
Ag.
      Write a program to sort a String Alphabetically.
      import java util *;
       Public class Main
           public static void main (String [] args)
               String Str;
               Scanner sc = new Scanner (System in);
              System out println ("Enter the String");
                Str = Sc. next Line();
                int j=0;
                Char temp = 0;
                char [] charArr = Str. to CharArray ();
                 Int Size = char Arr. length;
                 for Clint 1=0; il size; it) {
                      for Cj=i+1; jx Sixe; j++) {
                           if ( charArr [i] > charArr [j]) {
                                   temp = CharArr [i]
                                  chartsy [i] = chartry [j];
                                  charArr [j] = temp;
                               3
```

```
System out println (" The sourced string is");
          for Cint 1=0; i < sixe; itt)
              System out print ( char (i);
  . }
      Write a program to cheek it the letter 'e' is present
Bg.
      In the word 'Umbrella'.
       class
             Cheek
       £
          public Static void main (String [] avrgs).
          3
               String str = "Umbrella";
               boolean present = false;
                for (int i=0; il Str. length(); itt)
                   4
                       if C str. chas At [i] == 'e')
                        2
                            present = true;
                             break;
                  4
                  System out println (is letter 'e' present! + present);
           3
      z
```

10. Where exactly is the string constant pool located in the memory ?

The java string constant pool is an area in heap memory where java atores literal string values. The heap is an area of memory used for runtime operations. When a new variable is created and given a value, java checks to see if that exact value exist in the pool.