6 JAN WORK

Q1. What is signed and unsigned integer in java?

Ans-**Signed variables**, such as signed integers will allow you to represent numbers **both** in the positive and negative ranges.

**Unsigned variables**, such as unsigned integers, will **only** allow you to represent numbers in the positive.

Unsigned and signed variables of the same type (such as int and byte) both have the same range (range of 65,536 and 256 numbers, respectively), but unsigned can represent a larger magnitude number than the corresponding signed variable.

Q2 Can float,boolean,double be passed to a switch statement?

Ans-No,we cannot use float and Boolean in java switch.

Q3 What is output of a&b, a|b, ~a and a^b ?

Ans. a & b -> Will give answer of Logical AND operation value of ‘a’ and ‘b’.

a | b -> Will give answer of Logical OR operation value of ‘a’ and ‘b’.

~a -> Will give negated value of a.

a ^ b -> Will give XOR Value between ‘a’ and ‘b’

,Q4-What is class resolution ?

Ans. It is basically getting references to the symbolic representation of different symbols present in the class

Q5-Difference between switch case and else-if ?

Ans-

| **Basis for Comparison** | **if-else** | **switch** |
| --- | --- | --- |
| Basic | Which statement will be executed depend upon the output of the expression inside if statement. | Which statement will be executed is decided by user. |
| Expression | if-else statement uses multiple statement for multiple choices. | switch statement uses single expression for multiple choices. |
| Testing | if-else statement test for equality as well as for logical expression. | switch statement test only for equality. |
| Evaluation | if statement evaluates integer, character, pointer or floating-point type or boolean type. | switch statement evaluates only character or integer value. |

Q6-What is shift operator? When it can be used ?

Ans. Shift operators are logical operators. Like we have signed shift operator (>>) and unsigned shift operator (>>>). We can use shift operators for speeding up the multiplication / division operation than traditional multiplication / division.

Q7- program to find out largest no using ternary operator?

|  |
| --- |
| class Ternary{ |
|  |

|  |
| --- |
| public static void main(String[] args){ |
|  |

|  |
| --- |
| int a=9, b=54, c=1, result, temp; |
|  |

|  |
| --- |
| temp = a>b ? a:b; |
|  |

|  |
| --- |
| result = c>temp ? c:temp; |
|  |

System.out.println("Largest Number is:"+result);c