**UNARY OPERATOR**

* Basically, Unary operator that operates on a single operand or the expression.
* For a funny way unary operator can act as alone person doing work.
* There are different types of unary operators:

They are: 1. Unary plus (+)

2. Unary minus (-)

3. Increment (++)

4. Decrement (--)

5. Logical Complement (!)

6. Bitwise Complement (~)

* **Unary plus (+):**
* It is used to represent the positive value.
* It does not change the value of any variable.
* Simply we can say as the positive identity of the person (e.g., parents).
* **Unary Minus (-):**
* It is used to represent the negative value.
* It does not change the value of any variable.
* Simply we can say as the negative identity or character of the person.

e.g., enemies, etc…

* **Logical complement (!):**
* It is used to invert the values of boolean operands.
* In a funny way we can say that if you Yes to buy something then your sibling will say No to buy something.
* **Bitwise complement (~):**
* It is used to flip or invert each bit of the operand.
* Let us consider an example:

a=5 0101

1’s complement 1010

Then ~a=-(a+1) = -6.

Let see how it is possible: ~a= -6

Just Remove the sign of the value in calculation

6 0110

1’s complement 1001

2’s complement 1010

**Therefore, we can conclude as**

**2’s complement (Result) == 1’s complement (Number).**

/\*Write a java program for unary operators? \*/

class Unary{

public static void main(String []args){

int a=53;

boolean b=true;

byte c=+10;

short d=-5;

System.out.println(~a+” ”+!b+” ”+c+” “+d);

}

}

**In which data type the number 92233703685477820 be stored?**

**The value stored in the long datatype of java.**

**By the ending of the number, we need end with “L”.**

**So that the system should accept a large number.**

**What is the range of real number datatypes?**

**Real number datatype is of two types:**

**They are: 1. float**

**2. double**

**float: It can hold exactly 7 decimal points**

**upper range:** **3.4028235E38**

**lower range:** **1.4E-45**

**double: It can hold exactly 15 decimal points**

**upper range:** **1.7976931348623157E308**

**lower range:** **4.9E-324**