Name: Y. Rajanivas

Mail: rajanivas970@gmail.com

## **Bitwise Operator:**

In Java, bitwise operators perform operations on integer data at the individual bit-level. Here, the integer data includes int, short, long ,byte types of data. Some of operators are .

## 1) Bitwise XOR(^):

### Example for XOR(^):

```
class Main {
  public static void main(String[] args) {
    int number1 = 12, number2 = 25;

    // bitwise XOR of 12 and 25
    Int result = number1 ^ number2;
    System.out.println(result);
  }
}
```

### Output: 21

# 2) Bitwise Complement(~):

The bitwise complement operator is a unary operator (works with only one operand). It is denoted by (~). It changes binary digits 1 to 0 and 0 to 1.

Example for Bitwise complement(~):

```
class Main {
  public static void main(String[] args) {

   int number = 35;

  // bitwise complement of 35
   Int result = ~number;
   System.out.println(result);
  }
}
```

```
Output: -36

Unary Operators:

Unary operators are such operators which would take only one operand to perform an operation.

1) Unary plus(+):

It is used to represent the positive value.

Example for Unary plus(-):

public class unaryplus {

public estatic waid main(String[] args) {

int a = -25;

System.out.println(a);

}

Junary Minus(-):

Unary minus is used to represent the negative value.

Example for Unary minus:

package project;

public class unaryminus {

public static void main(String[] args) {

int a = -20;

System.out.println(a);

}

Junary Minus(-):

Autput: -20
```

```
BigInteger:

In java, "BigInteger is a class that provides arbitrary precision (bignum) integer airthematic. It belong's to "java math" package

>> In handles integer value of any size. BigInteger class is useful when working with extremely large integers that cannot be represented by the standard integer type(int, long, etc), it performs addition, subtraction, multiplication, division, modular airthematic, exponentiation and more on this large integers.

Example for BigInteger:

package project;
import java.nacth.BigInteger;
public class unaryglus (

// Create two BigInteger:

public datase unaryglus (

// Perform airthmetic operations)

BigInteger numl = new BigInteger("12345678901234567890");

BigInteger numl = new BigInteger("1234567891234567890");

// Perform airthmetic operations

BigInteger numl = new BigInteger("187643109976843120");

// Perform airthmetic operations

BigInteger numl = new BigInteger("187643109976843120");

// Perform airthmetic operations

BigInteger numl = new BigInteger("1876435678901234567890");

BigInteger numl = new BigInteger("18764584120");

BigInteger numl = new BigInteger("18764584120");

// Perform airthmetic operations

BigInteger numl = new BigInteger("18764584120");

BigInteger numl = new BigInteger
```