Assignment/Pre/Post Increment Operators.

*Post-increment Operator:
1. ++ sign is mentioned after the variable name:
eg: a++;
2. it increases the value by 1.
3. it first stores its value into another variable
and then increments by 1.

eg: Store thing in refrigerator and then move
outside.

*Pre-increment Operator:
1. ++ sign is mentioned before the variable name:
eg: ++a;
2. it increases the value by 1.
3.it first increase the value by 1 and later stores
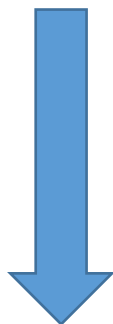the value
 into another variable.

int a=23;

int b;

b=++a;

b=24

eg: Javelin throw

Operator	Result
+	Addition (also unary plus)
–	Subtraction (also unary minus)
*	Multiplication
/	Division
%	Modulus
++	Increment
+=	Addition assignment
– =	Subtraction assignment
*=	Multiplication assignment
/=	Division assignment
%=	Modulus assignment
– –	Decrement

Program Below

```java
public class ArtihmeticOperations2
{

    public static void main(String args[])
    {
        System.out.println("Assignment Operator\n");
        int a=73;
        int b=10;

        a+=b;// a=a+b;   a=83,   a+=b 83

        System.out.println("Addition Assignment: a is="+a);
        System.out.println("\n---------------\n");

        a-=b;//a=a-b;   a=73, a-=b 73

        System.out.println("Subtraction Assignment: a is="+a);

        System.out.println("\n---------------\n");
        int p=5;
        int q=23;

        p*=q;//p=p*q;

        System.out.println("Multiplications Assignmet: p is="+p);

        System.out.println("\n----------------\n");

        double a2=19;
        double b2=4;

        a2/=b2; // a2=a2/b2;     a2=19/4;

        System.out.println("Divsion Assignment: a2 is ="+a2);

        System.out.println("\n------------\n");

        int p2=19;
        int q2=4;

        p2%=q2;// p2=p2%q2;   p2=19%4;

        System.out.println("Modulus Assignment p2 is="+p2);

        System.out.println("\n-------------\n");
```

```java
System.out.println("Increment");

int num1=13;
System.out.println("\n num1 is:"+num1);//13

num1++;// num1=num1+1;

System.out.println("\n num1 is:"+num1);//14

num1++;

System.out.println("\n num1 is:"+num1);

System.out.println("\n Pre-Increment Operator\n");

int value1=13;
int value2;
System.out.println("value1 is:"+value1);//13

value2= ++value1;// value1=value1+1 13+1=14

System.out.println("Value2 is:"+value2); //14

System.out.println("pre-increment\n");
int r1=13;
int r2;

System.out.println("r1 is:"+r1);

r2=++r1; //First the value is increased then the value is
stored(another variable).

System.out.println("r2 is:"+r2);//14
System.out.println("r1 is:"+r1);//14

System.out.println("\n--------------\n");


System.out.println("post increment");

int p3=19;
int q3;

System.out.println("p3 is:"+p3);
```

```java
		q3=p3++;//First Value is Stored(another variable) and then
Increased.

		System.out.println("p3 is:"+p3);//20

		System.out.println("q3 is:"+q3);//19

		System.out.println("----------");

		int c1=30;
		int c2;

		c2=c1++;

		System.out.println("c2 is:"+c2);//30
		System.out.println("c1 is:"+c1);//31


		//c2=30, c1=31

		c2++;//c2=30+1
		System.out.println("c2 is:"+c2);//31

		//c2=31
		c2++;

		System.out.println("c2 is:"+c2);//32

		//c2=32, c1=31


		c2=c1++;//
		System.out.println("c2 is:"+c2);//

		System.out.println("c1 is:"+c1);

		//c2=31, c2=32
		c2=c1++;

		System.out.println("c2 is:"+c2);//32
		System.out.println("c1 is:"+c1);//33

		}
	}
```

Assignment Operator

Addition Assignment: a is=83

Subtraction Assignment: a is=73

Multiplication Assignmet: p is=115

Divsion Assignment: a2 is =4.75

Mudulus AssignmentL p2 is=3

Increment

 num1 is:13

 num1 is:14

 num1 is:15

 Pre-Increment Operator

value1 is:13
Value2 is:14
pre-increment

r1 is:13
r2 is:14
r1 is:14

----

post increment
p3 is:19
p3 is:20
q3 is:19

```
----------
c2 is:30
c1 is:31
c2 is:31
c2 is:32
c2 is:31
c1 is:32
c2 is:32
c1 is:33
```