a++ → Post increment
++a → Pre

a-- → Post decrement
--a → Pre

Post → value change after print

Pre → value change before print

int a = 5;
sysout(a);

op
5, 6 (a++)

6, 6 (a++a)

5, 4 (a--)

4, 4 (--a)

```
// Online Java Compiler
// Use this editor to write, compile and run your Java code online

class HelloWorld {
    public static void main(String[] args) {
        int a = 5;
        System.out.println(a++);  // 5 6
        System.out.println(a);
        System.out.println(++a); // 7

        System.out.println(a--);  // 7 // 6
        System.out.println(--a);  // 5

    }
}
```

```
java -cp /t
5
6
7
7
5

=== Code Ex
```

Take Input

Scanner S = new Scanner(System.in);

(S, Scn, Scanner) — name

int x = S.nextInt(); // 10 | 20 | 50

int y = S.nextInt(); // 10 | 10 | 50

Sum of 2 no. → user1: 10 → 20 → 50; 10 → 10 → 50

user2 user3

System.out.println(x+y);

Sum and Difference of x and y

```
Scanner scn = new Scanner(System.in);
int x = scn.nextInt();
int y = scn.nextInt();

int sum = x + y;
int diff = x - y;

System.out.println(sum);
System.out.println(diff);
```

Area and Perimeter 5

int length = 5;
int breadth = 10;

area = length * breadth
perimeter = 2 * [length * breadth]

```
Scanner s = new Scanner(System.in);
int length = s.nextInt();
int breadth = s.nextInt();

int area = length * breadth;
int perimeter = 2 * (length + breadth);

System.out.println(area);
System.out.println(perimeter);
```

i/p → 5 → l
→ 10 → b

area = 5 x 10 = 50
peri = 2 * (5 + 10)
= 2 x 15 = 30

o/p → 50
30

Fahrenheit and Celsius

i/p double f = 32.0

o/p double c = (f-32) * 5/9

```
Scanner s = new Scanner(System.in);
double f = s.nextDouble();   // i/p
```

→ 32.0

```
double c = (f - 32) * (5.0 / 9.0);  // frah to cel conversion
System.out.println(c);  // o/p
```

(32 - 32) x (5.0/9.0)

0 x 0.55 = 0.0 o/p