

declare a variable (Syntex)

assignment operatorint a = 5; data_type vouiable_name = value; char b = k'; > keyword boolean c = false; double d = 7.434242;

> Operators

1) Airthematic operators

$$+, -, *, /, %$$

$$ex:- 2 + 5$$

5/5

$$2 \longrightarrow \text{true}$$

$$- \longrightarrow \text{true}$$

$$5 >= 5 \longrightarrow true$$

$$7 == 2 \longrightarrow false$$

$$7!=7 \longrightarrow \text{false}$$

$$2 < 1 \longrightarrow false$$

$$2 < 1 \longrightarrow false$$

int a = 5;

$$\langle 1 \rangle \rightarrow tause$$

a-- value will be 5

=-a value will be led

++a volue will be 1ed prefix inc/dec.]

==:- relational

Dernary operators

Logical operators

Sum and Difference of x and y

```
import java.io.*;
import java.util.*;
public class Solution {
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
                                                    (used to take input from user)
        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 = 10;
int breadth = 20;
int area = length * breadth;
int porimeter = 2 * (length + breadth);
   public class Solution {
        public static void main(String[] args) {
            Scanner scn = new Scanner(System.in);
            int length = scn.nextInt();
            int breadth = scn.nextInt();
            int area = length * breadth;
            int perimeter = 2 * (length + breadth);
            System.out.println(area);
            System.out.println(perimeter);
```

Fahrenheit and Celsius

double
$$f = 32.0$$
;
double $C = (f - 32) * \frac{5}{9}$
 $= (32.0 - 32) * \frac{5}{9} = 0.0$



```
public class Solution {
   public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        double f = scn.nextDouble();

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

        System.out.println(c);
   }
}
```

Add Last Digits

```
int a = 1234;
                                   a = 1234

ay+1 = a7.10 = 4
 int b = 22;
      = 4+2 = 6
                                                  123
public class Solution {
                                                _ 1230
   public static void main(String[] args) {
       Scanner scn = new Scanner(System.in);
       int a = scn.nextInt();
       int b = scn.nextInt();
       int digit1 = a % 10;
       int digit2 = b % 10;
       int ans = digit1 + digit2;
     System.out.println(ans);
```