Imp Notes :-

- code execution always starts from main function
- flow of execution is always top to bottom and left to right

⇒ Comments

↳ it is statement which doesn't get executed

Types :-

1) // :- single-line comment

2) /* */ :- multi-line comment

↳ comment example

```
public static void main(String[] args) {
    // System.out.println("*****");
    System.out.println("*");
    System.out.println("*");
    /*
    System.out.println("*");
    System.out.println("*****");
    */
}
```

⇒ Variables

↳ a variable is a container used to store data

⇒ Constant :- which is having fixed value

⇒ Data Type

- int :- 2 , 3 , 10 , -15 , 0
- float :- 2.3 , 3.4 , 5.72 , -1.5 , 5.0
- char :- 'a' , 'B' , '+' , '5' , '%' , ' '
- double :- 2.357420573 , ...
- long :- 10573423789
- boolean :- true , false
- byte :- numbers
- short :- numbers

Syntex :- declaring a variable

```
data_type  variable_name = value ;
```

1) `int a = 5 ;`
2) `char b = 'Z' ;`
3) `boolean c = false ;`
4) `float d = 7.3 ;`
5) `double e = 7.3152789O5 ;`

⇒ **Operators** :- which are used to evaluate a mathematic expression

1) **Airthematic operators** :- + , − , * , / , %

- 2 + 3
- 7 / 2
- 3 * 5

2) **Assignment operator** :- =

- int a = 7 ;

Note :- it always work from right to left

3) Relational operators :-

1) `>` :- 5 > 2 (true)
2) `<` :- 5 < 2 (false)
3) `>=` :- 5 >= 5 (true)
4) `<=` :- 7 <= 8 (true)
5) `==` :- 7 == 5 (false)
6) `!=` :- 7 != 5 (true)

4) Unary Operator :- int a = 5;

a++ :- post increment
++a :- pre increment
} +1

a-- :- post decrement
--a :- pre decrement
} -1

Sum and Difference of x and y

i/p int x = 5
int y = 3

o/p x+y (8)
x-y (2)

code

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

i/p :- int length = 5 ;
int breadth = 10 ;

area = length * breadth ;

peremeter = 2 * (length + breadth) ;

code

```
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 paremeter = 2 * (length + breadth);

    System.out.println(area);
    System.out.println(paremeter);
}
```

Fahrenheit and Celsius

i/p

double f = 75.2;

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

code

```
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

(224)
a = 224

ex
int a = 57 ;
int b = 28 ;

int ans = 7+8 = 15

int b = a % 10;

Code

```
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);
}
```