Variable

Java

- int :- $[-2^{31}, +2^{31}-1]$
- char :- 'a', 'A', 'z', '+', '#'
- double :- 2.3, -3.4, -1002.78, +8676.891

⇒ How to take input from user

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        // create a scanner object
        Scanner scn = new Scanner(System.in);
        // take an integer input
        int a = scn.nextInt();
    }
}
```

```
Scanner scn = new Scanner(System.in);   // create t

System.out.print(s: "Please input an integer value :
int a = scn.nextInt();  // to take input of integer

System.out.println("Your value is : " + a);
```

used to concatenate 2 values

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);   // create the tool

    // System.out.print("Please input an integer value : ");
    // int a = scn.nextInt();  // to take input of integer type

    System.out.print(s: "Input a String value : ");
    // String str = scn.nextLine(); // take input until end of line
    String str1 = scn.next();   // take input until find first space

    // System.out.println("Your value is : " + str);
    System.out.println("Your value is : " + str1);
}
```

Ques WAP to take input 2 values (length & breadth of a rectangle)
1) find and print the area of that rectangle
2) find and print the parameter of that rectangle

Ques WAP to take input temp. in F° and print it in C°

type casting :- when you convert one type of data type into another

Ques WAP to input 2 integer values and return the sum of it's once placed no.

e.g.; 1) 1234 7832

ans = 4+2 = 6

2) 232 1

ans = 2+1 = 3

+
−
*
/
%

how

a = 125 , b = 568

```
a = a/10;   // 12
int n1 = a%10;   // 2
b = b/10;   // 56
int n2 = b%10   // 6
```

```
int ans = n1+n2;
a = a%100;
a = 25
a = a/10;  // 2
```

Operators :- // Comparision

<	:	used to check for smaller no.
>	:	used to check for larger no.
<=	:	used to check for smaller and equal no.
>=	:	used to check for larger and equal no.
==	:	used to check for equal no.
!=	:	used to check for unequal no.

```java
Scanner scn = new Scanner(System.in);
System.out.print(s: "please enter lenght and breadth of rectangle : ");
int length = scn.nextInt();
int breadth = scn.nextInt();

int area = length * breadth;
System.out.println("value of area is : " + area);

int paremeter = 2 * (length + breadth);
System.out.println("value of paremter is : " + paremeter);
```

```java
System.out.print(s: "Enter temp in F : ");
double f = scn.nextDouble();

double c = ((f - 32) * 5)/9;
System.out.print("Temp in C is : " + c);
```

```java
System.out.print(s: "Enter 2 numbers: ");
int a = scn.nextInt();
int b = scn.nextInt();

int n1 = a % 10;
int n2 = b % 10;

int ans = n1 + n2;
System.out.println("Your answer is : " + ans);
```