

# DAY-6

16 June 2023 16:28

## STATEMENTS TO PRINT THE LITERALS/ DATA

IN JAVA WE HAVE PRINT STATEMENTS WHICH HELPS US TO PRINT DATA/LITERALS ON THE OUTPUT CONSOLE :

- i. `System.out.print();`
- ii. `System.out.println();`

### i. `System.out.print();`

IT IS USED TO PRINT DATA ON THE SYSTEMS OUTPUT CONSOLE

```
System.out.print("1");  
System.out.print("2");  
System.out.print("3");  
System.out.print("4");  
System.out.print("5");  
System.out.print("6");  
System.out.print("7");
```

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### NOTE :

`System.out.print(DATA);`, IT WILL PRINT THE GIVEN DATA AND MOVES THE CURSOR TO THE RIGHT

`System.out.print(); //CTE`

NOTE :

FOR `System.out.print();` IT IS **MANDATORY** TO PASS THE DATA , IF WE TRY TO USE WITHOUT PASSING THE DATA THEN WE GET **CTE**

### i. `System.out.println();`

IT IS ALSO USED TO PRINT DATA, AS WELL AS NEW LINE

```
System.out.println("a");  
System.out.println("b");  
System.out.println("c");  
System.out.println("d");
```

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System.out.println(); ---> it is possible

### NOTE

- System.out.println(); : IT PRINTS THE DATA ON THE SCREEN AND MOVES TO THE NEW LINE
- WE DO NOT GET ANY CTE IF WE DON'T PASS ANY DATA WHILE USING THIS

### OPERATOR ( + )

WHAT IS OPERATOR ?

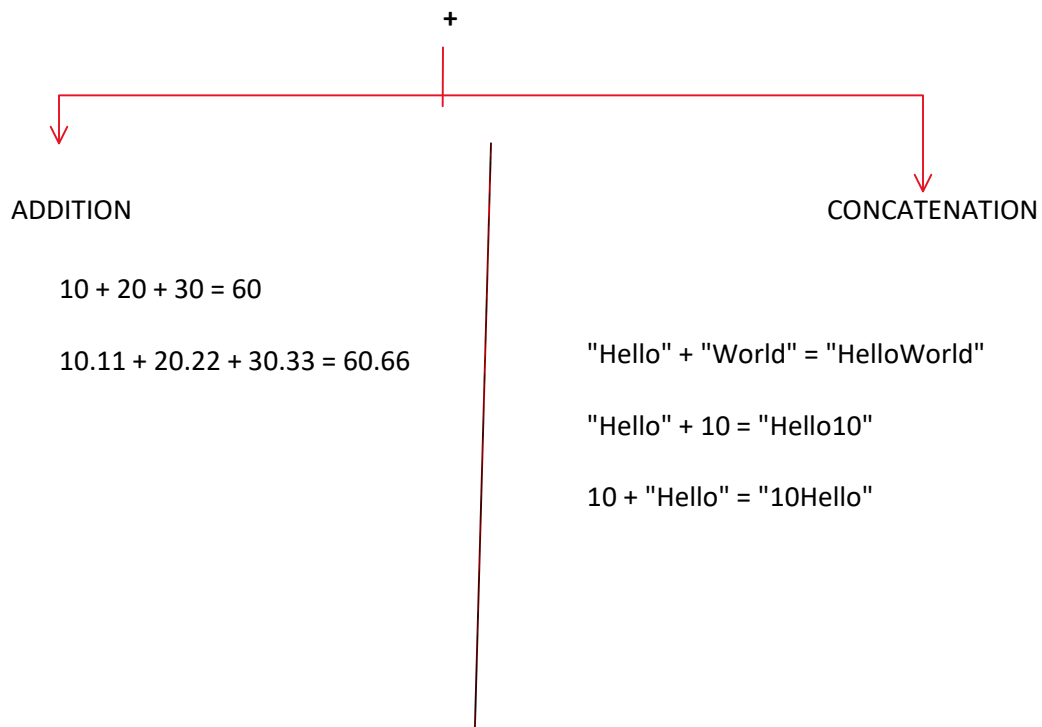
- OPERATORS ARE SYMBOLS USED TO PERFORM OPERATIONS ON OPERANDS

ADD TWO NUMBERS

1 + 2

1 2 ----> OPERANDS

ADD ( + ) ----> OPERATION



'a' + 'b' = ab --?

- CHARACTERS HAVE ASCII VALUES
- EACH OF THE CHARACTERS HAVE UNIQUE ASCII VALUES
- ASCII VALUES OF
  - ◆ 'A' = 65
  - ◆ 'B' = 66
  - ◆ 'a' = 97
  - ◆ 'b' = 98
  - ◆ 'c' = 99

### **HOW CHARACTERS ARE ADDED ?**

- FIRST THE CHARACTERS IS CONVERTED INTO ASCII VALUES
- THEN THE ASCII VALUES ARE ADDED AND THEN DISPLAYED

EX :

'A' + 'B'

65 + 66

RESULT = 131

WHEN ADDITION IS PERFORMED ?

- WHEN BOTH ARE NUMBERS
- WHEN BOTH ARE CHARACTERS
- WHEN ONE IS CHARACTER AND OTHER IS NUMBER

WHEN CONCATENATION IS PERFORMED ?

- WHEN BOTH ARE STRING
- WHEN ONE IS STRING OTHER IS NUMBER
- WHEN ONE IS STRING AND OTHER IS CHARACTER

### **HOW TO EXECUTION TAKES PLACE ?**

ALWAYS EXECUTION HAPPENS FROM LEFT TO RIGHT

10+20+30 = 60

10+20+"HELLO" = "30HELLO"

"HELLO" + 10 + 20 = "HELLO1020"