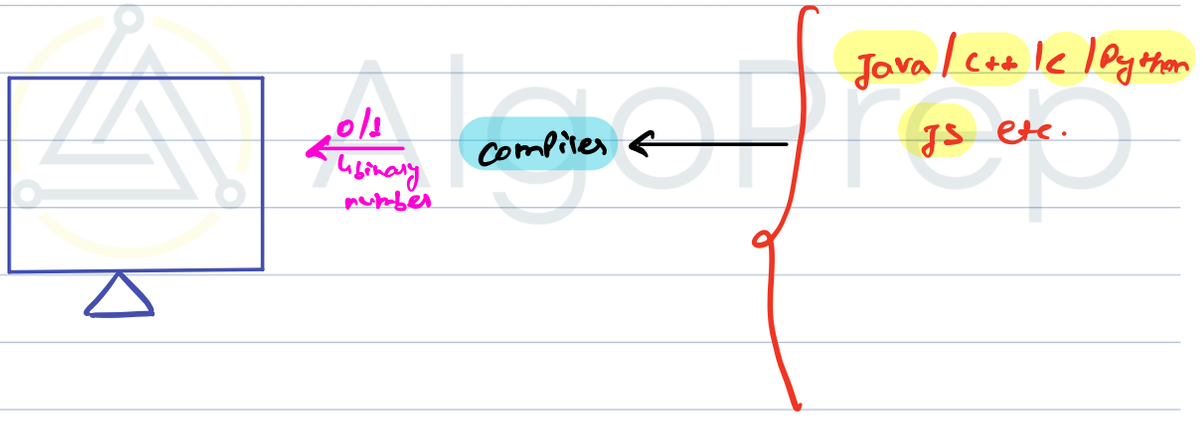
Today's agenda

- Intro
- output
- operators
- Data types

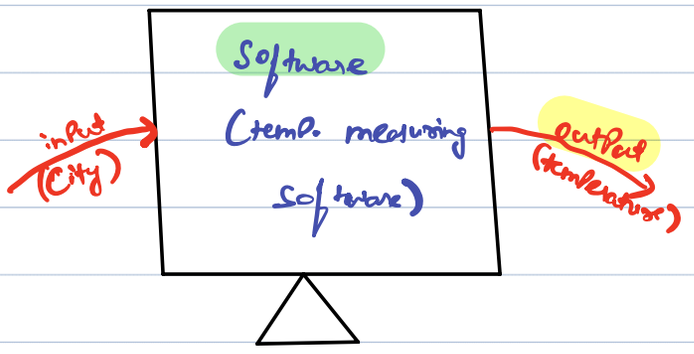
* Computer is ! → Dumb


a) get up from bed
b) go to kitchen
c) get a glass
d) fill glass with water
e) bring the glass to me.




→ english → rules → grammar

→ Java → we will follow certain rules.
↳ Syntax




IDE

↳ Integrated development environment. ] Online ide/editor

↳ Eclipse / Intellij / VSCode etc.

Rule 1:

① output → Rule

↳ System.out.println(10); → 10

↳ next line → It will press enter after printing

System.out.println(7); → 7

↳ System.out.print(10);
↳ System.out.print(50);
↳ System.out.println(80);
↳ System.out.print(100);

output

10 50 80
↓
100

Ex: `System.out.print(7*10);` → 70

`System.out.print(50/5);` → 10

↳ Double quote Printing

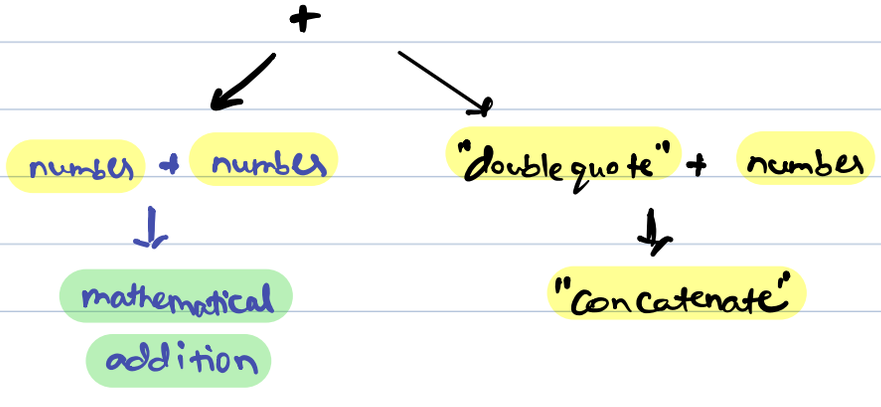
`System.out.println("7*10");` → 7*10

↳ Plus sign in output

`System.out.println(7*10+"Hello");` → 70Hello

`System.out.println("Hello"+7*10);` → Hello70

`System.out.println("Hello"+7+10);`



* Operators

↳ + - * / ( ) → BODMAS

$5 + 5 \div 5 = 6$

↳ myth busters

Rank 1 : ( )

Rank 2 : ÷

Rank 3 : *

Rank 2 : Divide / multiply

↳ Computer will process left to right.

Rank 4 : +

Rank : -

Rank 3 : add / subtract

↳

Break till 9:40 pm

* Data types

↳ numbers, characters, boolean etc.

integer — decimal

boolean: true / false

add 2 numbers (uses)

↓ receive number → variables

1
2
3
.
.
.
10

Let the first number be "x"

↓

variables

→ int x;

x = 20;

x = 30;

Type — name

→ int x;

x = 100;

equivalent value

= ← assignment
↳ right side to left side

Ex1: int temp;
temp = 20;
temp = 100;
→ System.out.println(temp); → 100


Ex2: → int temp;
temp = 20;
System.out.println(temp); → 20
temp = 100;
System.out.println(temp); → 100


Ex3: int temp;
temp = 100


↳ int temp;
temp = 20;


System.out.println(temp);

↳ Same name can't be created again.

# Creating variables

## 1st way

declare

```
int temp;
temp = 20;
```

initialization

## 2nd way

```
int temp : 20;
```

↳ both declare & initialize in same line.

// Input

↳ Scanner scn = new Scanner (System.in);

name

once in a code

int temp = scn.nextInt();

integer

No such element exception → Not given the input.