

Aarnav Jindal

Product Manager - Scaler

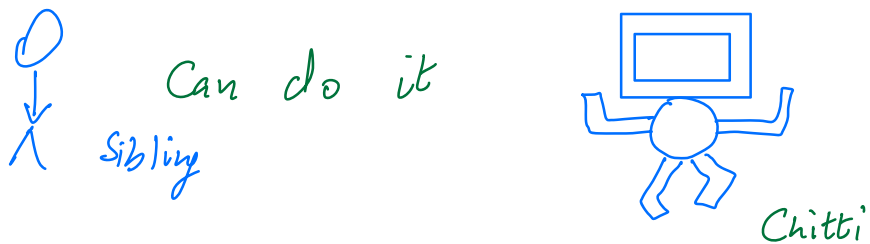
Ex SDE Visa, CureFit, Coding Blocks

5 Million downloads on Apps on Apple & Google

Teaching since 4 years

Codess.Cafe founder - Placed people in FAANG in UK, Germany, Singapore etc

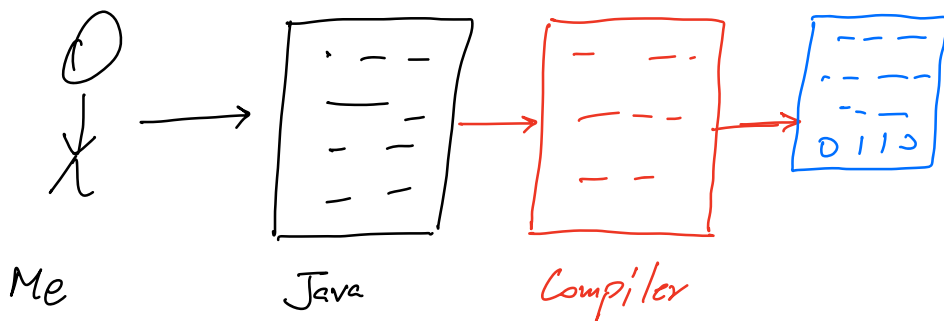
Starting at 9:05pm



Stupid

Elaborate all steps completely

- source of water
- location of glass
- fill completely
- drinking water
- bring it to me



☐ Switch (Billions)

ON (1) OFF (0) \Rightarrow Language of Computer

Syntax

- I is teaching from my student. \times
 Wrong grammar ^{Set of rules}
- I am teaching maths. \checkmark

Java also has rules \rightarrow Syntax
Compiler \rightarrow Compilation error

Data types

Ice	Water	Water Vapour
Bucket	Bottle	Cylinder

Why different containers ??

Java \Rightarrow Numbers, Text

- 1) int
 - 2) long
 - 3) float
- \Rightarrow Numbers without decimals / integers
10, -2, 0, -119876, 1111111

4) double Numbers with decimal value
3.14, -1.25, -1.87654321

Integers

Small numbers \Rightarrow less memory \Rightarrow int
Big numbers \Rightarrow More memory \Rightarrow long

Decimal numbers

Small numbers \Rightarrow less memory \Rightarrow float
Big numbers \Rightarrow More memory \Rightarrow double

Strings

"Hello" "Hello world!"

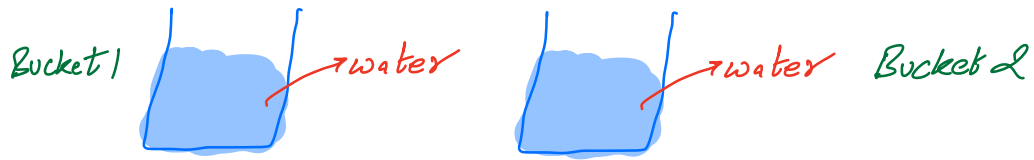
"10" \rightarrow Yes \Rightarrow String
10 \rightarrow No \Rightarrow int
10.1 \rightarrow float

$$\begin{aligned} -10^9 &\leq -2^{32} \leq \text{int} \leq 2^{32} - 1 \leq 10^9 \\ -2^{64} &\leq \text{long} \leq 2^{64} - 1 \\ 1.4 \times 10^1 - 45 &\leq \text{float} \leq 3.4 \times 10^{38} \\ 4.9 \times 10^1 - 324 &\leq \text{double} \leq 1.7 \times 10^{308} \end{aligned}$$

Boolean

True / False

Variables



Q By giving label

Q integers

Label name \Rightarrow Variable name

Container \Rightarrow Variable

Water_Bucket bucket 1

int x;

x [15]
integer

[20] y
integer

Q

int x;

int y;

Writing variables

int x;

x = 10; // x bucket holds value 10

x = "Hello"; // Grog

int x = 10; // Make a bucket and put
10 in it

long y;

y = 1000 000 000 000 l; // London - l

float z;

z = 1.23 f; // Finland - f

double w;

w = 1.22222 3333 444;

boolean v;

v = True;

v = False;