Introduction to Java — 1

AGENDA:

- Introduction
- Curriculum
- Output in Java
- Data Types
- Input in Java

2018 BITS Pilani

Intuit

→ Mentor
TA
Instructor

Class Structure

- Class start 9:05
- Break ≈ 10:30 pm {10 mins}
- Content ends 11:30 pm ~ 11:45 pm
- Doubts after session is done

Terms & Jargon

Additional practice

PSP —— Problem Solving percentage. { 90% }

Types of Question ⟶ Assignment

⟶ Homework ⟶

$$\frac{\text{Assignment problems solved}}{\text{Total anigment problems}} * 100$$

Attendance ⟶ come to live class always

Course Content

- Refresher : Introduction to Java : Input/Output + Data * Types + Operators
- Refresher: Introduction to Java : If-Else
- Refresher: While Loop
- Refresher: For Loop
- Refresher: Patterns
- Refresher : Functions
- Refresher : 1D Arrays
- Refresher : 2D Arrays
- Refresher : Arraylists
- Refresher : Strings
- Refresher : HashMap & HashSet
- Refresher Practice Test
  - Will be given more information later on

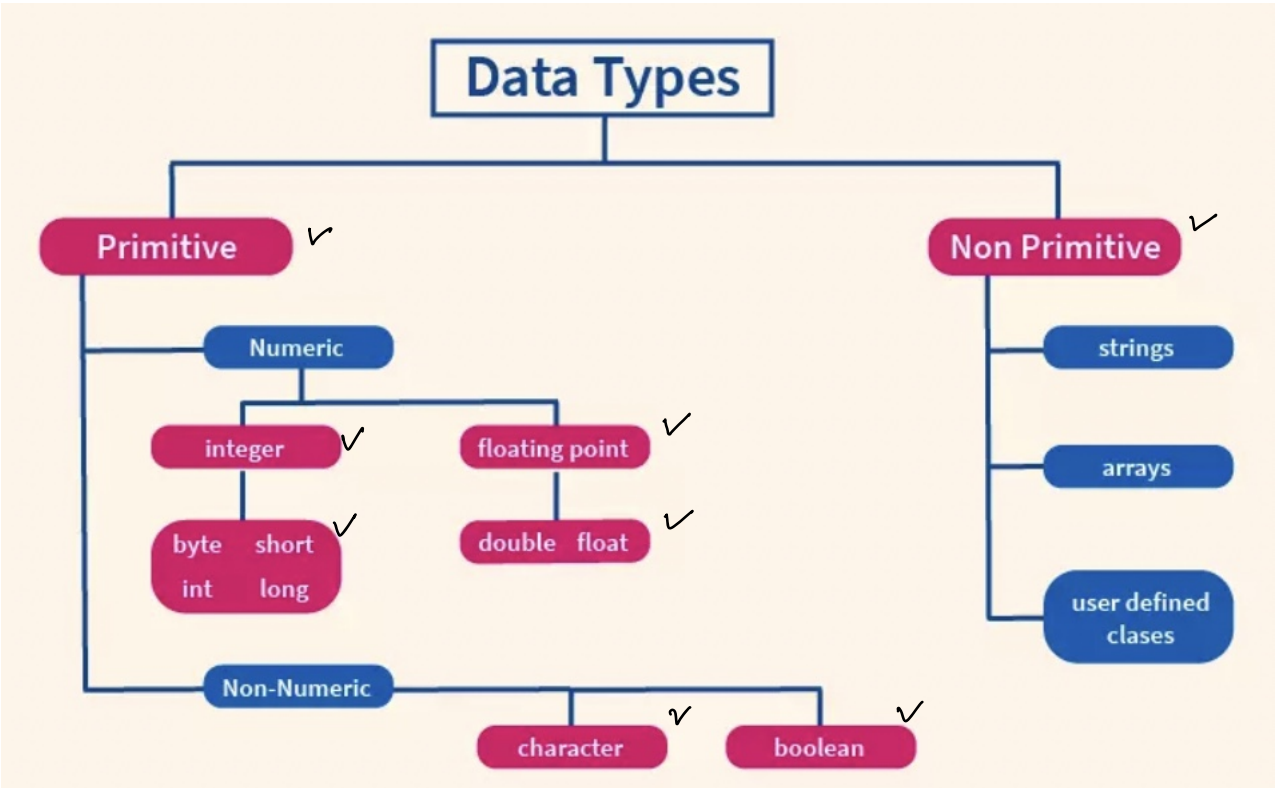
Note:

1. In Intermediate Refresher, we shall be revising the basic programming constructs.
2. Be consistent in solving problems. If stuck, please post the issue in your WA/Slack group and let's make it a habit of helping each other as it will eventually help you to be better.

FAQs :

- Notes will be uploaded after the class.
- Assignments will be unlocked after the class ends.
- There is no deadline for assignments. ⟶ Before the next class
- If asking a question, ask in public chat.
- If answering a question, answer in private chat.

Refresher ⟶ 1 month
Intermediate ⟶ 1 month
Advanced ⟶ 4 months



byte ⟶ -128 to 127

short ⟶ -32768 to 32767

$\approx -2^{16}$ to 2^{16}

int ⟶ $\approx -2^{32}$ to 2^{32}

$\approx -2 * 10^9$ to $2 * 10^9$

long ⟶ $\approx -2^{64}$ to 2^{64}

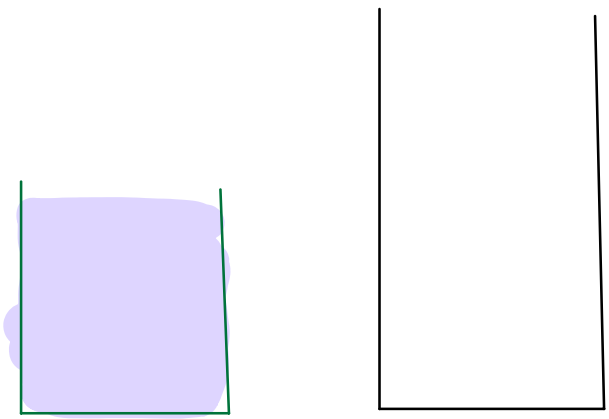
$\approx -10^{18}$ to 10^{18}

float ⟶

double ⟶

Type Casting

Case 1



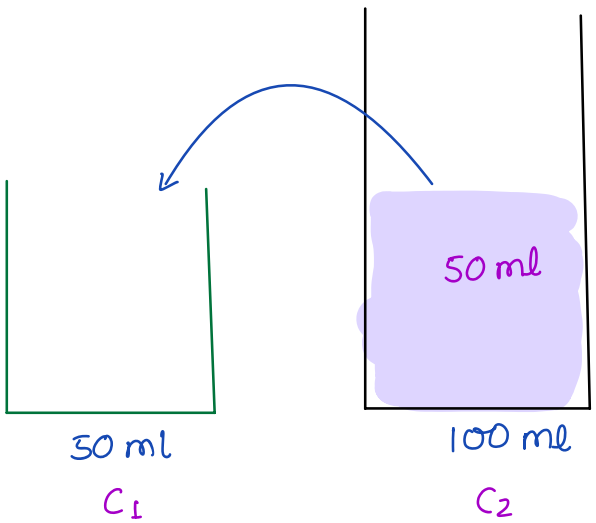
long a = 1000;

↓ Treated as int

⟶ 1000 is typecasted to long

Implicit typecast

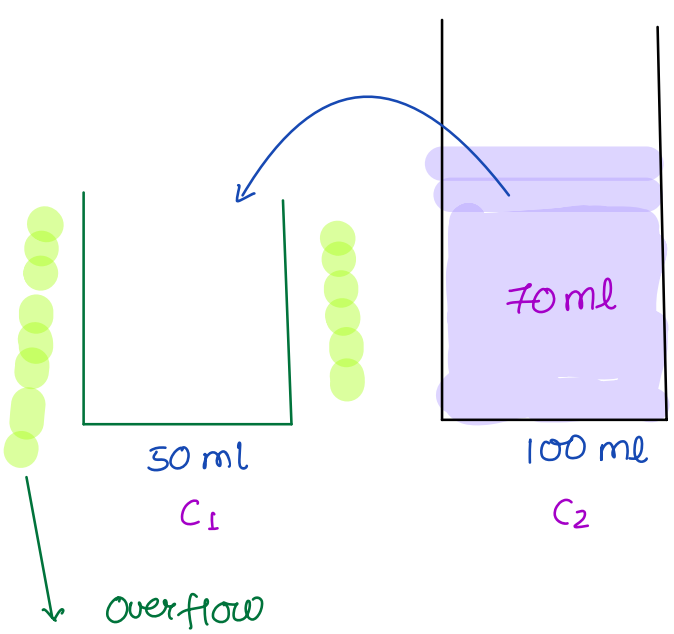
Case 2




```
long a = 10;

int b = (int) a;
```

explicit type cast



Break : 22:52