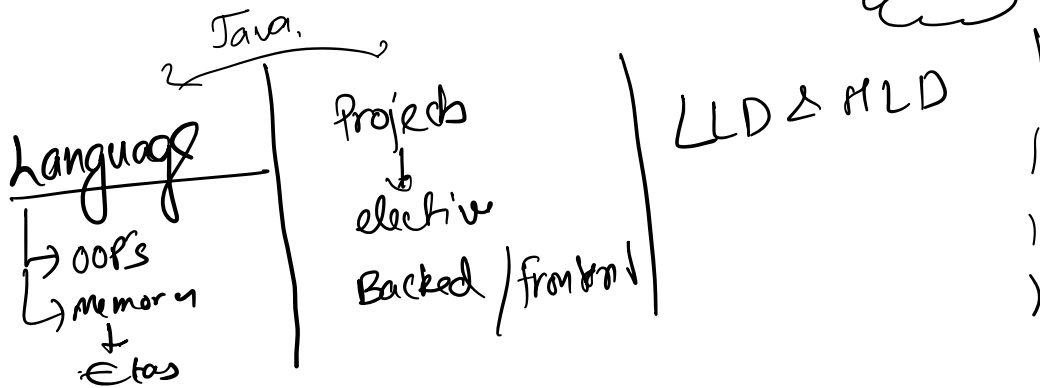
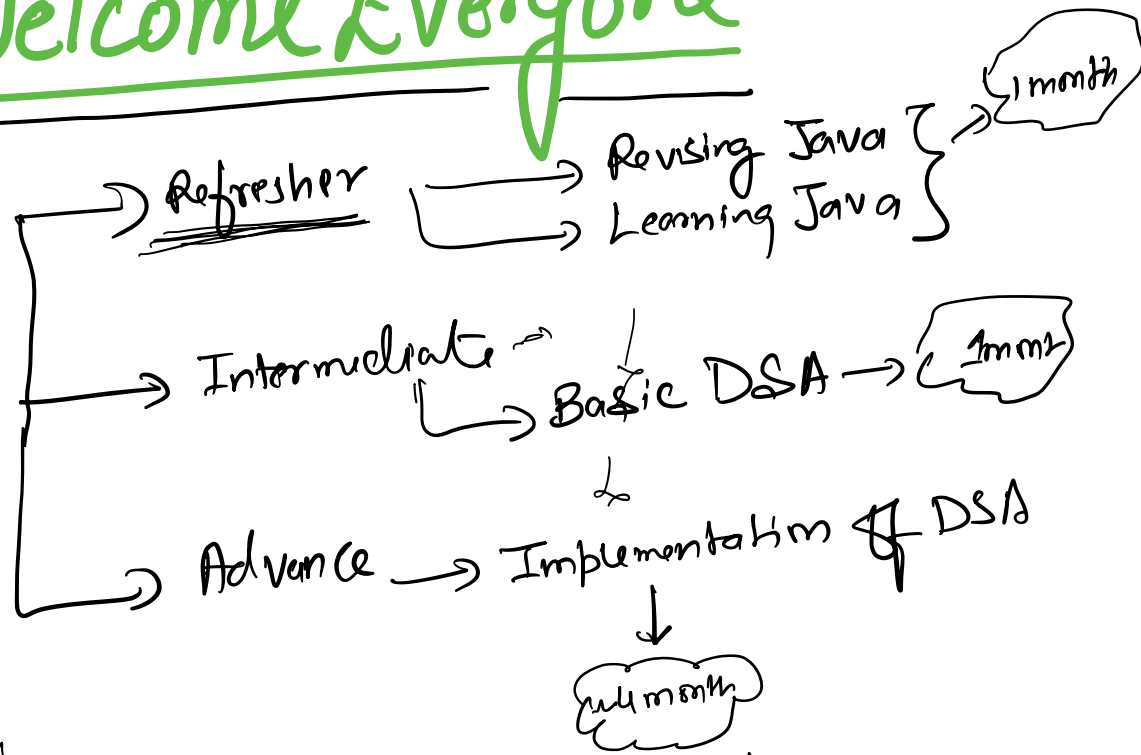


Welcome Everyone

DSA



Structure of Class

→ 9:05 pm Sharp

→ reply private - Q/Ans

→ Question → chat, Question

Start : 10:15 pm

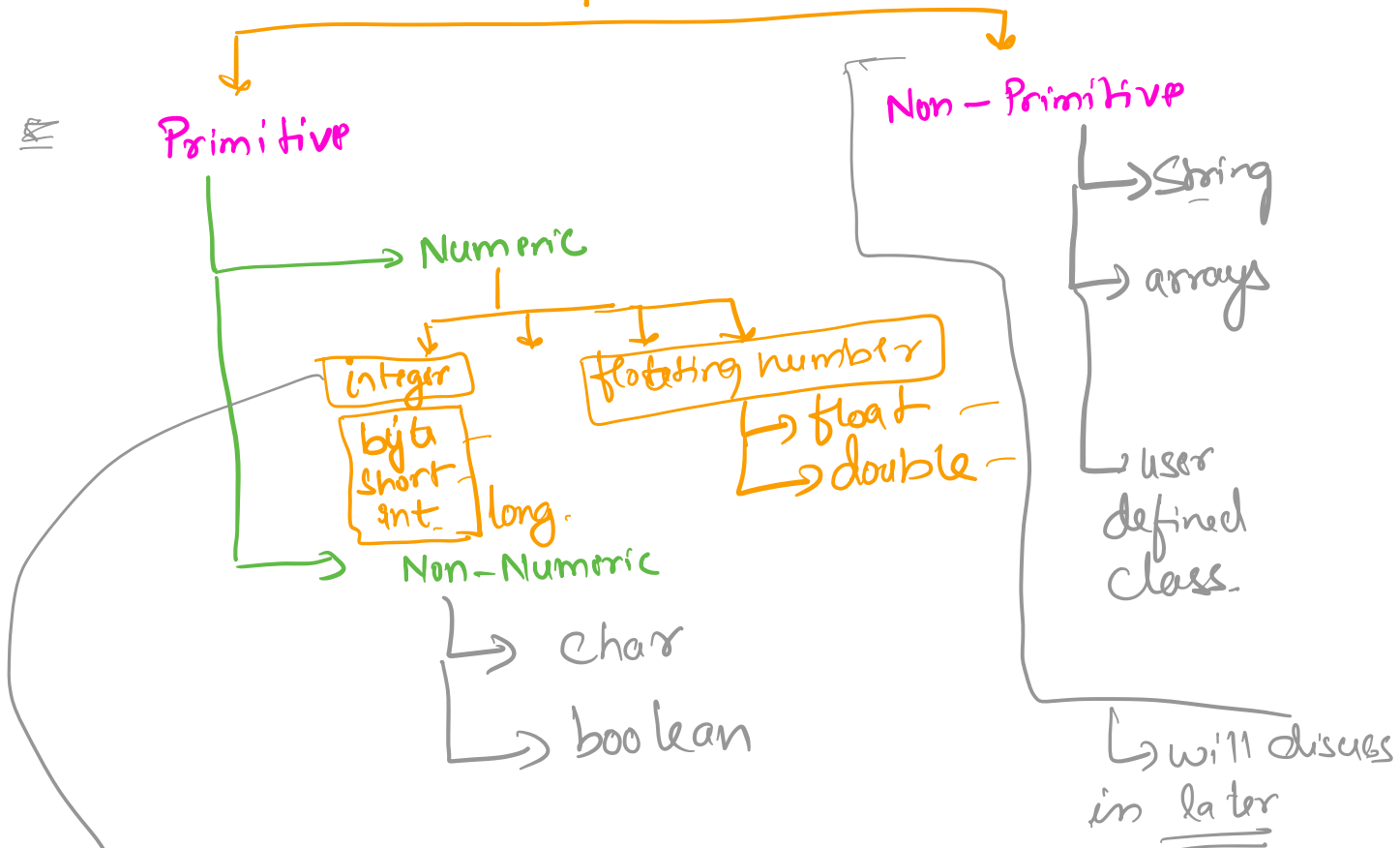
#

REFRESHER CLASSES.

- 1> Intro [Today's Class] -
- 2> If - else
- 3> while
- 4> For
- 5> Patterns
- 6> Functions
- 7> 1d array
- 8> 2d array
- 9> ArrayList
- 10> Strings
- 11> Hashmap & HashSet



DATA TYPES



Integer \Rightarrow whole number.

\hookrightarrow Byte $[-2^7 \text{ to } 2^7 - 1]$
 \hookrightarrow Short $[-2^{15} \text{ to } 2^{15} - 1]$
 \hookrightarrow int $[-2^{31} \text{ to } 2^{31} - 1]$
 \hookrightarrow long $[-2^{63} \text{ to } 2^{63} - 1]$

$\approx * (-10^9 \text{ to } 10^9)$
 $\approx * (-10^{18} \text{ to } 10^{18})$

Floating Number \Rightarrow Decimal

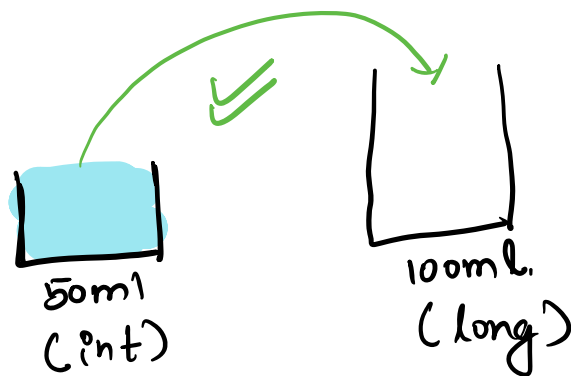
3.00000 \rightarrow precision

\hookrightarrow float \approx 7 decimal number
 \hookrightarrow double \approx 15 decimals

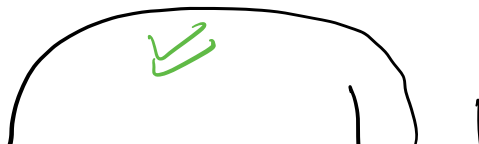
Strings \rightarrow " " \rightarrow string.
 \rightarrow list of characters

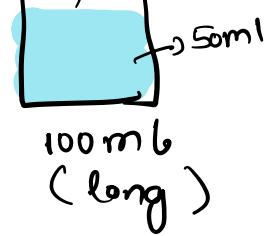
Type casting

Case 1

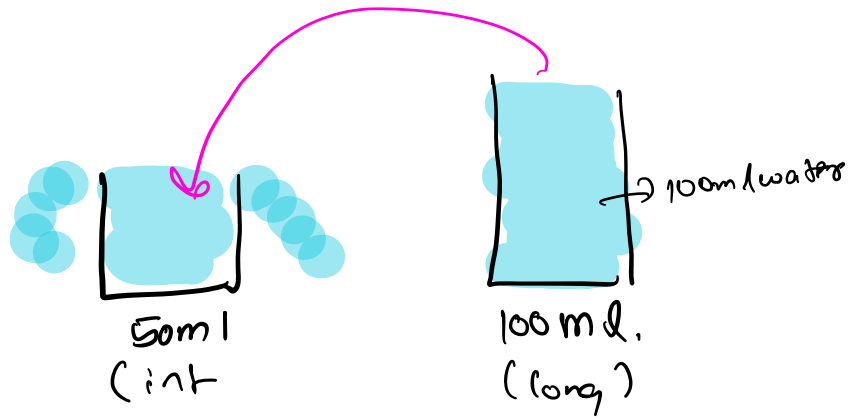


Case 2





Case 3



1 → you can typecast from smaller datatype to bigger type.

2 → you can typecast from bigger datatype to smaller datatype considering the value is in range of smaller datatype.

3 → you cannot typecast from bigger to smaller if range is above smaller datatype

Example 1

int i = 5;

long I = i;

sysout (I); ans = 5

Example 2

long I = 1000000000000L;

int i = I;

sysout(i);

↳ error → lossy conversion

Example 3

long I = 1000L;

int i = I;

sysout(i);

↳ error will be
there.