Non Primitive Primitive Ls byte Stains Integeor Values aggra a y Shoat Int long gloat decimal double 7 character Chan boolean I true / galse Computer only underestands binary byte = 8 bits 28 = 256 byte a = 2; sange - 128 Shoat = 2 bytes = 16 bits short a = 2; eange -2 >> 4 bytes = 32 bits

int a = 2; -2^{31} 2^{31}

long > 8 bytes > 64 bits > 264 long a = 2; 1024 2) x 20 x 2p 2 10 × 10 × 103 (000000000 if greater use long Decimal

Ploat = 4 bytes = 1078.943218

double = 8 bytes = 278.96

double a = 45.8

Sloat a = 0.38; X

ASCII - American standageds codes for information interdange 256 16 bit => 2" >> 2 bytes => Charch = 'a'; char ch2 = 98; ASCIL o Unicode 'A' - 65 'B' - 66 161 -'6' - 48 ا د ا ı d' 100 121-50

boolean > tave / galse

b default > galse

Memory / RAM

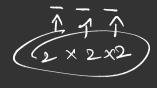
int a; II declaration

$$a = 10$$
; Ilinitialisation
int $b = 20$;

All primitive data types are stoned in stack a 10

Heap

NP -> heap



000

21° 00 1000

210 % 103