

Basic data types

Numbers

↓
int

10

0

15

60

-45

-36

↓
float

16.71

200.02

14.56

-0.29

strings

↓
'python'

↓
"python"

↓
"""python"""

bool

True

False

int

16

2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
0	0	0	1	0	0	0	0

$$\begin{array}{r} 2 \overline{) 16} \\ 2 \overline{) 8 - 0} \\ 2 \overline{) 4 - 0} \\ 2 \overline{) 2 - 0} \\ \underline{1 - 0} \end{array}$$

$10000_{(2)}$

$$\begin{aligned} & 2^7 \times 0 + 2^6 \times 0 + 2^5 \times 0 + 2^4 \times 1 + 2^3 \times 0 + 2^2 \times 0 + 2^1 \times 0 + 2^0 \times 0 \\ & 0 + 0 + 0 + 16 + 0 + 0 + 0 + 0 \end{aligned}$$

16

float

3.14

$$\begin{array}{r} 2 \overline{) 3} \\ \underline{1-1} \end{array}$$

$11_{(2)}$

$$\begin{array}{r} 2 \overline{) 14} \\ 2 \overline{) 7-0} \\ 2 \overline{) 3-1} \\ \underline{1-1} \end{array}$$

$1110_{(2)}$

2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0

montesa

$$2^7 * 0 + 2^6 * 0 + 2^5 * 0 + 2^4 * 0 + 2^3 * 0 + 2^2 * 0 + 2^1 * 1 + 2^0 * 1 = 3$$

$$2^7 * 0 + 2^6 * 0 + 2^5 * 0 + 2^4 * 0 + 2^3 * 1 + 2^2 * 1 + 2^1 * 1 + 2^0 * 0 = 14$$

$$3 + 14 * 10^{-2}$$

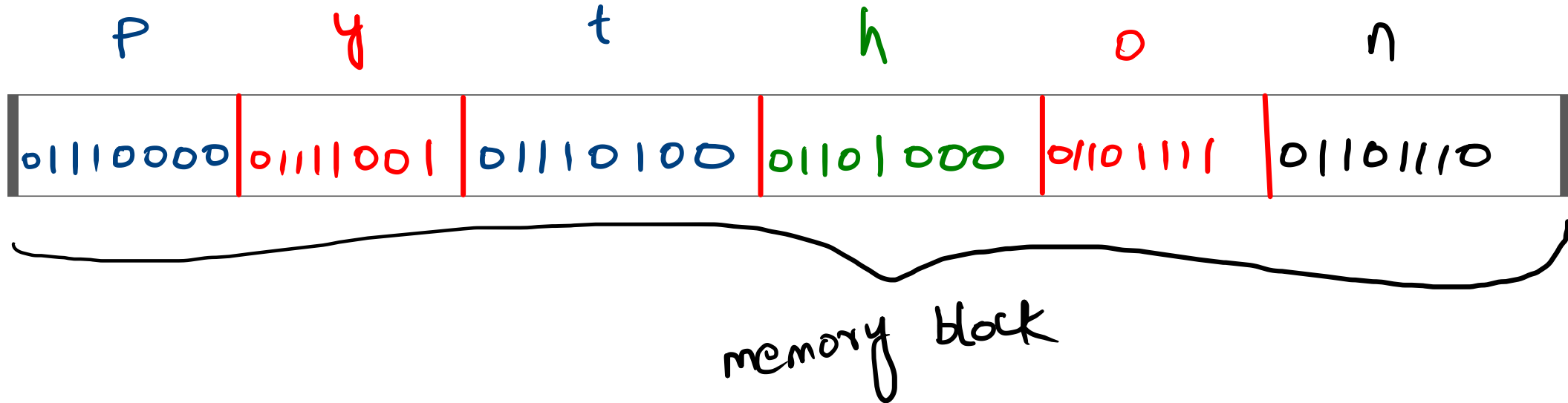
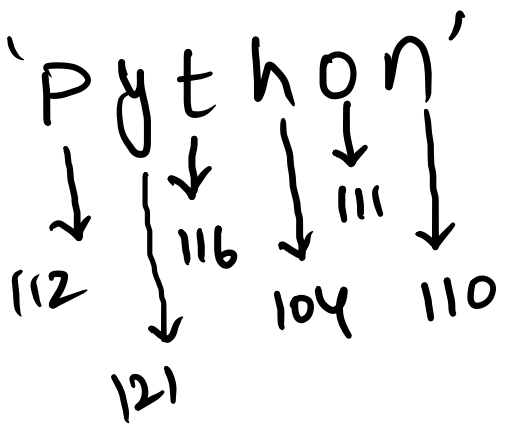
$$3 + 14 * \frac{1}{10^2}$$

$$3 + 14 * \frac{1}{100}$$

$$3 + 0.14$$

$$3.14$$

SK



2 | 112

2 | 56-0

2 | 28-0

2 | 14-0

2 | 7-0

2 | 3-1

1-1

2 | 116

2 | 58-0

2 | 29-0

2 | 14-1

2 | 7-0

2 | 3-1

1-1

2 | 111

2 | 55-1

2 | 27-1

2 | 13-1

2 | 6-1

2 | 3-0

1-1

2 | 121

2 | 60-1

2 | 30-0

2 | 15-0

2 | 7-1

2 | 3-1

1-1

2 | 104

2 | 52-0

2 | 26-0

2 | 13-0

2 | 6-1

2 | 3-0

1-1

2 | 110

2 | 55-0

2 | 27-1

2 | 13-1

2 | 6-1

2 | 3-0

1-1

bool

True - 1

False - 0

$i = 10$
② ①
 → int
 memory will be allocated

$j = i$
 val?
 val?

memory will not be allocated

