

Python Basics

→ printing statement → doc

→ data types

→ if else , questions

→ Loops , questions

CamelCase

Method to name identifiers

eg:- totalCount

noOfGifts

Python print

end → by what a print statement ends

sep(,) → value for sep

python data types

Text Type: `str`

Numeric Types: `int`, `float`, `complex`

Sequence Types: `list`, `tuple`, `range`

Mapping Type: `dict`

Set Types: `set`, `frozenset`

Boolean Type: `bool`

Binary Types: `bytes`, `bytearray`, `memoryview`

None Type: `NoneType`

Hashables ?

l :

0	1	2	3	4
5	4	1	3	2

int

range -2147483648 through 2147483647

+ - / * %

$\hat{4/5} \rightarrow$ implicit promotion / typecasting

$\text{int}(4/5) \rightarrow$ explicit typecasting

Modulo (%)

$$0 \% 4 \rightarrow 0$$

$$1 \% 4 \rightarrow 1$$

$$2 \% 4 \rightarrow 2$$

$$3 \% 4 \rightarrow 3$$

$$4 \% 4 \rightarrow 0$$

$$5 \% 4 \rightarrow 1$$

$$6 \% 4 \rightarrow 2$$

$$7 \% 4 \rightarrow 3$$

$$8 \% 4 \rightarrow 0$$

circular

$$x \% n \rightarrow \text{range}[0, n)$$

significance of %

↳ it is the number which signifies the extra value required to subtracted from the given number so as to make it divisible

eg:- $17 \rightarrow 16 + \textcircled{1}$
 $17 \% 4 \rightarrow \textcircled{1}$

$$8 + \textcircled{0} = 8$$

$$8 \% 4 = \textcircled{0}$$

strings

$s = \text{"Aaditya"}$

	0	1	2	3	4	5	6
$s \rightarrow$	A	a	a	i	t	y	a

$s[0] \rightarrow A$

slicing

$s[0:4] \rightarrow Aad$

$[s:e] \rightarrow [s,e)$

$s[2,6] \rightarrow dity$