

Index & Slicing



$\Rightarrow a = \text{'This is Divesh'}$

$a =$

0	1	2	3	4	5	6	7	8	9	10	11	12	13
T	h	i	s		i	s		D	i	v	e	s	h
-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

Syntax:

Variable-name [index Value]

Eg: $a[6]$ ✓

$a[10] = \text{'n'}$

Eg: $a[-8]$ ✓

Slicing

- All ✓
- start
- end
- to

• $a =$

0	1	2	3	4	5	6	7	8	9	10	11	12	13
T	h	i	s		i	s		D	i	v	e	s	h
-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1

Eg: All

$a[:]$

Start

$a[:]$

end

$a[:7]$
start 0 to $n-1 = 7-1 = 6$

$a[7:]$
index value to $n-1$

$a[8:11]$
index value to $n-1 = 11-1 = 10$

Spectral ID .T / Pre- D.T

tuple List dict Set

- can hold multiple values at a time
- values are nothing but elements
- elements can be any D.T
- elements must separate with comma
- All these things must enclosed in ^{below} brackets

tuple ()

set { }

list []

dict { }

tuple

vs

list

()

[]

read only

both read & write

immutable

mutable

a = (4 , 4.6 , 'hello')

~~Assignment~~

a = 'This is Divesh'

'This is Dinesh'

'This is your full Name'

'convert into lower case

convert into Upper Case

convert into Capitalize