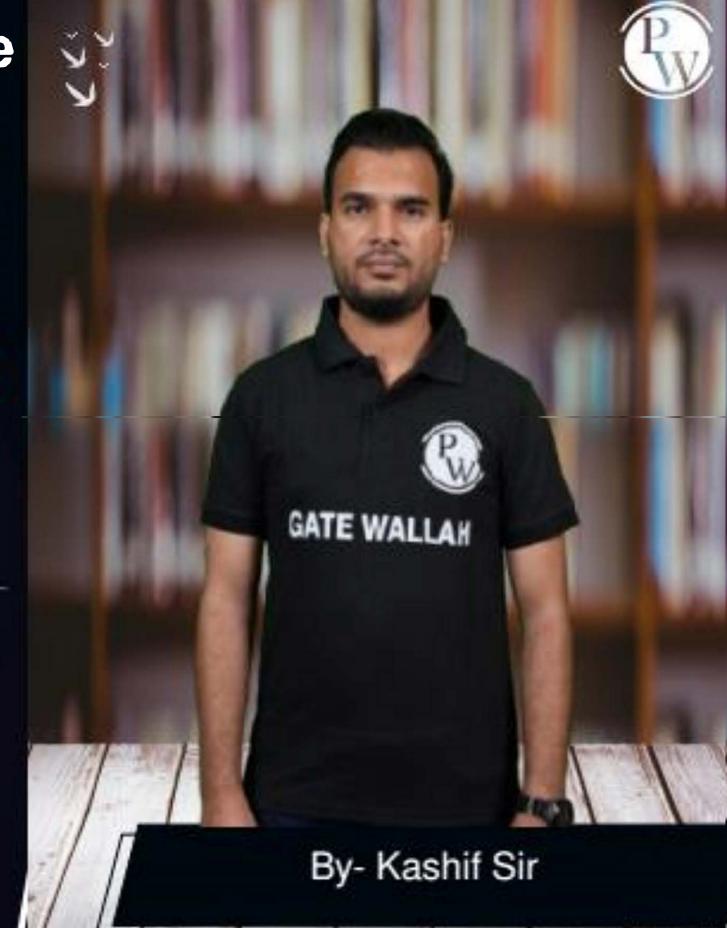
Data Science & Artificial Intelligence Python for Data Science

Python Collections and String Handling









RECAP



String methods

List Initialization

Accuming of lint

Adding the elements

(append, invent, extend)

Agunda -> List, Typle



Pw

• Tuples, Sets, and Frozen Sets





LIST



L'ail rof tudois neal

a = input ("Enter walnes"). split ()

12345 = 112345°

2) | Lot = [] a = ["1", 2", "3", "4", "5"] |

N = int (input ("Enter no. of elements") |

Jor i in mange(n)

Lot-apport (int (input ("Enter value"))

(tel) tring

lat = ["Rohit", "Virat", "Dhoni", "sadim", "Dubi", "Dk', "Jainad"] 1 st [0] = "Raina" J. * [4:] = "Raina" print (let) => ["Robit", "Viret", "Dhoni", "Sachin", "R", "e", "i "i", "i"] ["Deli, bri] Lot [4:] = ["Raina"] print(11) => ["Rolis", "Vird", "Dhoni", "Sachin", "Raina"] It [2:4] = ["Raing"] ["Pohit", "Virat", "Rama", "Duki", "DK", "Jaiswal"]

remove, del, clear, remove => 1.1= [10, 20, 30, 40, 50] Ist. remove (60) 108[1:-1] Sog-zamove (30) Lirst occurence del Jot[1:3] =) [10, 40, 50] [] (= 1 the 1 thing (= [[:] the lab del let => print/let/=> error ht.char() => print(lu) => []

•

List Comprehenion (concine way to for λ in range (1, 101) $h = \begin{bmatrix} 1 & \text{for } \lambda & \text{in } \text{stange}(1, 101) \end{bmatrix}$ 1= [in2 for i in range(1/6)] [expression for ikm in Iterable] 1=[i+5 for i in range(1,51] [6,7,8,9]

Juverse E() Therersel) sorted() Sort() Int = [1, 8, 2, 7, 6, 5, 9, 12]

Lat. sort () => In place sorting Lat. sort (reverse = True) print(Int) [1,2,5,6,7,9,9,12] Lid , "z", "c", "b"] = tal Jus. 2011) => ['a", "b", "c", "z"]] abcdet, "b"] "aai "86"

Sorted (lat) 1) 1 = ["", "2", "abc", "c"] Sortal (let, ruema = True) [11,0,11] stal Jost. reverse () => In place [11,9,7,1] [1-::] tal tal) berevert



TUPLE



noitessiloitinI

Tuph Packing

The process of combining values not garding eldpt belles ai eldpt



The process of extracting individual value of Juple into multiple variables. a, b, c, d = (1, 2, 3, 4)

$$a_{1}^{a}b_{1}c_{1}d_{2}(1_{1}^{2}3,4_{1}^{3},6_{1}^{3})a_{1}=1$$
 $a_{1}^{a}b_{1}c_{1}d_{2}(1_{1}^{2}3,4_{1}^{3},6_{1}^{3})a_{1}=1$
 $a_{1}^{a}b_{1}c_{1}d_{2}(1_{1}^{2}3,4_{1}^{3},6_{1}^{3})a_{1}=1$

$$a,b = (1,2,3,4,5,6,7)$$

 $a,*b = (1,2,3,4,5,6,7)$
 $a = 1$
 $b = [2,3,4,5,6,7)$

t = tuble ("bython") +=(1,4,3) += ("b", "y", "t", "h", "O", "N") 19 (a) t 7(0) => 1 Slicing 7 [-5] =) "0" とにりまり ましいツ) (ツ、米、ぶ) In link ("ty thon") ("t', "y') (= [[s:] t print(T) = und quen t = tup h ("python") 750]= "m" = 5014

$$\begin{array}{l}
\lambda = [1,2,3,4,5] \\
\lambda = (1,2,3,4,5)
\end{array}$$

$$\begin{array}{l}
\lambda = (1,2,3,4,5)
\end{array}$$

$$\begin{array}{l}
\lambda = [1,2,3,4,5]
\end{array}$$

$$\begin{array}{l}
\lambda = [1,2,3]
\end{array}$$

Updak Tuple

Jang = ("Java", "(", "Python")

) st = Just (lang)

List Jot [1] = "C++"

lang = ["Jane", "C++", "Pyshon"]

Lang = Suple(lat)

Janesze 91)

Tuple - list

Sore() = inplace

Sorted()

Sorted()

Sorted()



THANK - YOU

