Data Science & Artificial Intelligence

Python for Data Science

Python Collections and String Handling





Lecture No. 04



RECAP



List — List Comprehension

Tuple Tuple Unputing
Tuple Unputing
Tuple Unputing

Sorti 1, sortell 1, steversel 1, scorrade)



Python Collections and String Handling







SET



X= (1,2,3, [4,5)) X 7[3] = [1,2] 001 = [0] [E] to 5 = { 10,20,30, } = = error J= 1 1, Truet (LI trive) print (2 in 5) = True (2) tril = L

5= {1,2,3} >5. updak ({4, 5,6}) print (5) 81,2,3,4,5,67 S. Updake ("KATE") (2) fried {1,2,3,"6", A,T',E"} S. Up date (f"hATE"}) {1,2,3," " WATE"}

3= (9,10,11) a = S. union (+) print(a) £1,2,3,9,10,113 Union) Updatel) 1 = S. Union(+) S. Up Late () returning a new Hobolu Lliw EI tuothiw, tex bno tu ant modifying the Judurn Type tu wantio will be None

discord()

nandomby blutes one show here themselves

a={1,2,3}

A={1,2,3}

A: remove(3)

Links)=) {1,2}

A: remove(4)

a= {1,2,3} a. discard (3) brint(a) 1,153 a. discard(6) 5= {1,2,3,2,5,7,5,9} Jun(5) 5= (1,2,3,5,79}

a= {1,2,33 a.pope) It will nandomly that one showet from det. 5 = { I, D, 1.0, True, Faler, 0.0 lun(5) 5 e { 1,0}

a. union(b, c, d. --) a/b/c/2... a={1,2,3} b={2,3,5} In(a1b)

Indersection Indursection - Updak a={1,2,33 a= {1,2,3} b = {2,3,43 p= {213,43 a. interaction supported a. intersection(b) print(a) Jun(a 4 b) = 2 £5123 £ 5 13 }

diffrance

0 = {1121343 b = {213143

c = a. différence (b)

Or - p

(2 {1}

b-9= {y}

difference-update

P= {513123

Da. difference-uplate(b)

print(a)

= 213

Symmetric - difference

B= {1,2,33

a Ub - anb

{1151249- {5133

-> {1,43

a. symmetric-difference (b)

print(c)

is disjoint) char(1 (p= a-copy() a={1,2,3} a. clear() p={4,2,63 print (a. indiagonalb1) => True delik she not He stramely the summer. ()terreque ai () terdua ai Q= {1,2} P = {1151312 (1d) surrequaries) tring print (b. is super ut (a)) False = print (b. is subset (91)



FROZEN SET



```
Transmitable

\[ \text{Immutable} \quad \q
```

UNION!

INTERSECTION!

DIFFERENCE!

SYMMETRIC-DIFFERENCE!

(084!)



DICTIONARY



$$J = \{1: \alpha, 2: 0: [1:2:3], A: (1:2!)\}$$

15 = dica([(a,1),(6,4,(6,3)]) 25 = { 'a': 1, 'b': 2, 'c': 3} 1.0 . True 0 - 0.0, Falm book (9)



Summary



Set

remove, discar &, pop

Frozen Set

Dictionary

. Union, Interaction, Difference, Symmetric Difference, Symmetric Difference, Symmetric Difference - up dote



THANK - YOU

