Data Science & Artificial Intelligence Python for Data Science

Python Collections and String Handling







Lecture No. 05



Pw

 Python Collections and String Handling





RECAP



Set - Union, interaction, difference, symmetric (modable) difference, interaction-uplack, difference-uplack, copy

(anordered)

- Initialization Accurring

Jemove, discord, pop

terregnasi, teadrasi, brivis bei

- char, del

Mrozinsod - Tramutable

inplace of ho method

Initialization

Orbrit

Indexing is done on ke



DICTIONARY



```
round fromkerhil mothers.
            Students = ["Rahul", "A diti", "Ishan", "Ravi", "Nikhil"]
             dict1 = dict. fromkrye ( students)
              print(dict1)
Ect 2 ["Fahul"]
                of "Rahul": None, "Aditi": None, "Inhan": None, "Ravi": None,
               Licks = dict. from keys (chidutes, 0) "Nikhil": None }
                  print(did2)
                 ("Ruhw": 0, "Aditi": 0, "Inhan": 0
```

dick2 = { 'a': [1,2,3], 'b': (4,5,6) , 'c': {3,10}, 'd': {10:20,30:405}

value can be of any data dyper value can be duplicate also values are also changeable

dist3 = {(1,2,3): 'a'}

dic \$2 = { [1,2,3]: a'}

(tist, text, tail) ettinged hours sund tomps agreed

keys will have only immutable value

keys cannot be duplicate keys can only be added or removed but cannot be changed

dick2 = { "Rohit": 47.9 , "Virad": 51.7 , "Sachon": 55} print (Jan (dict21) = 3 x = (1,2,3, [4,5)) dick3 = { (1,2,3, [4,5]): 'a'} dicte. keys () => will give all the keys - dict2. valuer () => will give all the values dict2. items()=) will gru all the key-value pairs Pohil", 47.9) ("Virat", 51.7), y [47.9, 51.7, 55]

i in dicte. keys (): for v in dichervaluel). for print (v, end=",") print (is) 47.9,51.7,55 47.9 r Ruhid" · Virw" for k, v in dict 2. itemel): 55 " Sachin" print ("Key: ", k, "Value: ", V) Accessing the elements dict1 = { 'a':1, b:7, 'c':9, 2:100} print (dic+1['b']) = 7 dict1. get('a') => 1 but (gict To dot (, G.)) -> Nove print (dickLC'e']) =) error brint (dict1. gut ('e' 1-1)) => -1

("name": Witchill, "age". 26, "prof": "steedent", "salary": 100 or selective:

gic 7 7 = { , o , : 1 ' , p . :	2, "c": 35
" a" Jan Led 2 ->> To	rue 5 cargli
and the state of t	on in Dictionary
dic+2= 2 1: dil dic+2[2] dil dic+2	"ab", 2: "helle", 10: "world"} error Lick 2. clear() = dick 2. poply)
	January Lines
The key-value provident arrow	print (v)
pair when key = 2	It will deben the last been the
	(10, "World")

$$x = [1, 2, 2, 3, 4, 4, 5]$$

$$y = \{i \text{ for } i \text{ an } x \text{ id } x.\text{ count}(i) = 1\}$$

$$print (\text{sortal}(y)) = [1, 3, 5]$$

$$y = \{2, 3, 5\}$$

$$\frac{d2}{d2} = \{a' : 1, b' : 2\}$$

$$\frac{d3}{d3} = \{a' : 1, b' : 2\}$$

$$\frac{d3}{d3} = \{a' : 1, b' : 3, c' : 4\}$$

$$\{a' : 1, b' : 3, c' : 4\}$$

Once = "umbr"

reprod = "ella"

u = once + (suprat + "")*4

= "umbr' + ('ella' + "')*4

= umbrella ella ella ella

2) which of the Jollowing to valid variable? a) For It While while UST In X9) 123 IN a, b, c

51 = "mid u rock" 52 = "i rule mit" if Jun(s2) = = Jun(s2): for char 2 in s2:for charz in sz: if char 1 = = char2: print ("GATE DA") Now many times "GATE DA" will be break printed? (7) GATE DA

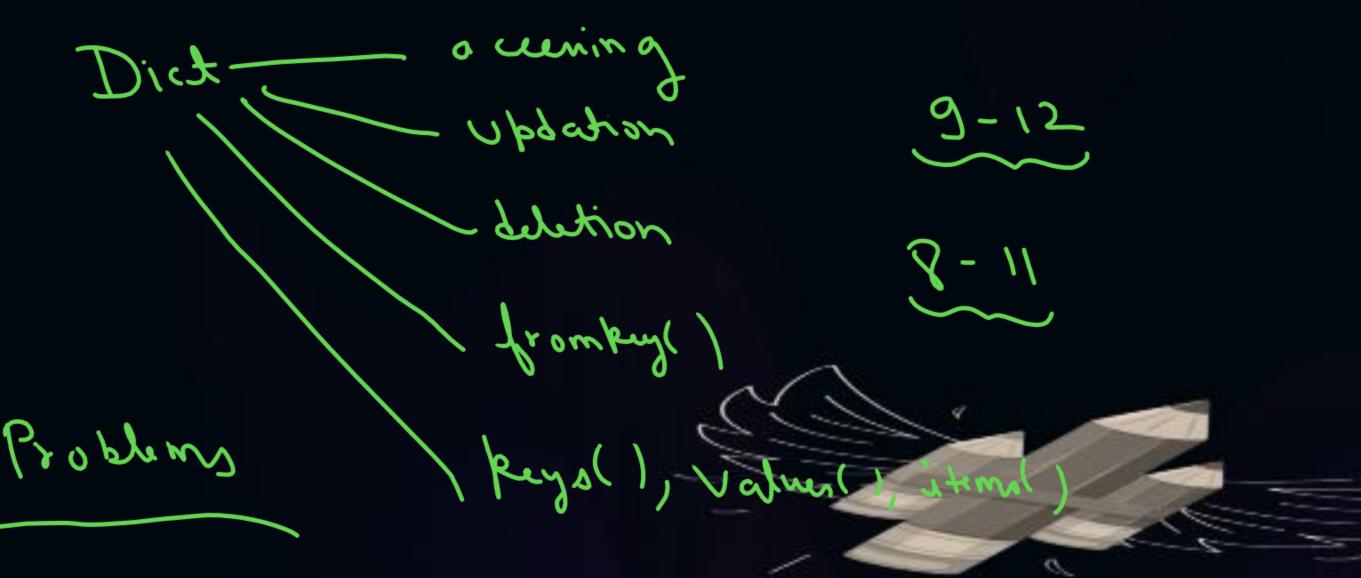
["lif", 0, 42, "world"]

what is the value of L3 after executing of the Operations given below: Li= ['ne] ['im'] = [] L2 = ['d0] Ly= L1+L2 = Ly= ['sai, mx] L2. extend (Ly) -> L3 = ['do', se', mi] (3. sorx() =) (3=['do', 'mi', 'ske'] det 13[0] [3= ['mi', su'] L3. append (['fo', la']) L=['mi, 'Ju', ['fo', la']



Summary







THANK - YOU

