1/20	
1.1	ASSIGNMENT-13
	MOPULE-5
	A good on with or
1)	What is dictionary in python? Explain with an example
	example
	a collection of unordered det of
Ans	A dictionary is a collection of unordered eset of key: value pairs, with a requirement that keys are unique in one dictionary.
	key: value grains, with a victionary.
	are magain in one more
	eg: >>> d= f3
	>>> d L"Mange J = Dillac
	))) d["Banana]= fruit
	» d [ "Qucumber" ] = " Veg
	S' Mango': 'Iruit', Banana': 'Iruit', Cucumber': Veg 3
	E' Mango': Fruit, Barrara .
	What is tuple in spython? Exceptain with an example
2)	avample
	o of to lot
Ans	A tuple is a sequence of items, similar to lists
	1 1 12 ( sethant thanporthesis)
	eg: >>> t = 'Mango', Banara', 'Apple'. (without sparentfesis)
	11 L . 1 L
	('Mango', 'Banana', 'Apple')
	>>> t1= L'Jom, 341, 'Jerry')
1	sis brint (E)
a market a military and in the	11 don't 711 Tenrill will be
Z.)	write a spython program to sum all items in
1	write a python program to sum all items in
1 114 9	

def sum\_list Liters is 1 dum\_numbers = 0 4 JOM for x in items; dum\_ numbers += x return sum\_numbers Sprint Colum\_list ([1,2,-8])) Outoput: -5 4) Write a skython program to create a list of empty distionaries. l=[83 for \_ in range(n)] sprint (1) out-put: [ ? 3 , ? 3 , ? 3] 5) Write a python program to access dictionary keys element by index num = { 'physics': 80, maths': 90, chemistry: 863 output: ophysics 6) Write a spython sprogram to itterate over a dictionaries using for loops d= &'Red': 1, 'Green': 2, 'Blue': 3}.

for color key, value en d. items():

print (color key, corresponds to, dicor key]) Dutput:

Red corresponds to 1

Blue corresponds to 3

lyren corresponds to 2 1) Write a python program to sum all the items in a dictionary my\_dict={'data1':100, 'data2':-54, 'data3':2473'
print (sum (my\_dict.values())) Output: 293 8) Write a spython script to concatenate following dictionaries to create a new one.

elample Dictionary:

a. dic 1 = £1:10, 2:203 b. dic 2 = {3:30, 4:403 c. dic3 = {5:50, 6:603 dic 1 = {1:10, 2:203 dic 2 = {3:30, 4:403 dic3 = {5:50, 6:603 dic 4 = {3}
for d in (dic1, dic2, dic3): dic 4. update(d print (dic4) Dulput: {1:10, 2:20, 3:30, 4:40, 5:50, 6:603 9) Write a spython program to create a tuple and with different data types

A tuple can be created in python as a comma experated list of items - may or may not be enclosed with aparenthesis »> E= 'Hango', Banara', 'Apple' ») print(t) ('Mango', Banana', Apple') 3) t, = ('Jom'; 341, 'Jerry') >>> sprint (ti) (Tom', 341, Jerry) create a tuple with single value »> x=(3) » print (x) » type(x)
L. class int'> Using comma >>> t=3, L. das Tuple) Using string. >>> t= tuple ('Hello') >>> print(t) L'H', 'e', L', 'L', 'O')

Using list >>> t = tuple ([3, [12, 5], 'Hi']) >>> sprint (t) (3, [12,5], 'Hi') Using another tuple >>> t= ('Hango', 34, 'he') >>> t, = tuple (t) >>> print (ti) ('Hango', 34, 'hi') >>> tis t, True 10) Write a python program to create ar convert a typle to string def Convert Tuple (tup): str = '', join (tup) tuple = ('g', i', t', 'a', 'm') str = convert Tuple ( tuple) sprint (ostr) output: gitam 1) write a python program to slice a tuple

otèce = tuple [3:5] print (\_ dice) olice = tuple [:6] sprint ( - estice) slice = tuple [5:] sprint (\_ slice) \_ eslice = tuple[:] sprint (\_ slice) \_ slice = tuple [-8:-4] sprint (\_ slice) tuple 1 = tuple ("Hello Gitam"). sprint (tuples) oslice = tuples[2:9:2] print (\_slice) \_ slice = tuple 1 (::4) print (\_ slice) - slice = tuple 1 [9:2: -4] print(\_dlice) Dutput: (5,4) (2,4,3,5,4,6) (6,7,8,6,1) (2,4,3,5,4,6,7,8,6,1) (3, 5, 4,6) ('H', 'e', 'I', 'O', '', 'G', 'E', 'L', 'a', 'm') ('H', 0'0', 't') ('a'') 2) Write a python program to find the length

tuple = (2,4,3,5,4,6,7,8,6,1)

tuple 1 = tuple ("Gitam") print (typle 1) sprint (len (tuple1)) sutput: 'G', i', t', a', m' 13) Write a spython sprogram to convert a tuple to a dictionary tuples = ((\$2,"S"), (3, "k")) oprint ( dict ((y, n) for n, y in tuple 1)) output: §'k':3, 's':23 14) write a python program to reverse a tuple x= ("Gitam University") def reverse (tuple): new\_tuple = tuple [::-1 y= reversed (x) return new\_typ print (typle (y)) x = ("Gitam University") x = (5, 10, 15, 20) print ( reverse (x)) Output ('y','t','i','s','r','e','v','i',n','U', ', 'm','a','t', 12, 6) 15) Write a python program to converse a list of tuples into a dictionary L=[("x",1),("x",2)("y",1),("y",2),("z",1)] d= 83 for a, b in 1: d. set default (a, (1). sppend(b) frint (d)

Classmate

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Dutput: & y': [1,2], 2: [1], 'x': [1,2,3]3

16) Write a python program to convert a list to a tupple

Lest x = [5, 10, 6, 28, 15]

aprint (list x)

typle x = typle ( list x)

aprint (typle x)

Output: [5,10,6,28,15]