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1.what is dictionary in python? Explain with an example.

A Dictionary is used to map or associate the things you want to store the keys you need to get them. Dictionary are defined into two elements keys and values.keys will be a single element. example of dictionary:

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d1={"apple":1,"mango":2,"pineapple":4}

apple,mango,banana are keys 1,2,4 are known as values

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3.write a python program to sum all items in a list.

sum=0

list=[12,3,5,67,3,10]

for i in range(0,len(list)):

sum=sum+list[i]

print("sum of elements in the list is:",sum)

4.write a python program to create a list of empty dictionaries.

n=3

l=[{} for \_ in range(n)]

print(l)

5.write a python program to access dictionary keys element by index.

d1={"hello":32,"gitam":12,"hyderabad":21,"banglore":36,"vizag":5}

print("original dictionary is:"+str(d1))

print("key values are:")

for i in d1:

print(i)

6.Python program to iterate over dictionaries using for loop.

d1={"banglore":32,"vizag":12,"hyderabad":21,"mumbai":36,"chennai":5}

for k,v in d1.items():

print(k,v)

7.Python program to sum all items in the dictionary.

def sum(d2):

sum=0

for i in d2:

sum=sum+d2[i]

return sum

d2={"a":12,"b":8,"c":15}

print("sum of items in the dictionary:",sum(d2))

8.write a python script to concatenate the following dictionaries to create a new one.

sample dictionary

dic1={1:10,2:20}

dic2={3:30,4:40}

dic3={5:50,6:60}

dic1={1:10,2:20}

dic2={3:30,4:40}

dic3={5:50,6:60}

dic4={}

for d in (dic1,dic2,dic3):

dic4.update(d)

print(dic4)

10.write a python program to create a tuple.

t=5,10,15,20,25

print(t)

11.write a python program to create a tuple with different data types.

t1=(1,6.9,"hi",False)

print(t1)

12.write a python program to convert a tuple in to a string.

tuple=('h','e','l','l','o')

str=''.join(tuple)

print(str)

13. write a python program to slice a tuple.

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

slice=t[3:5]

print(slice)

14.write a python program to find the length of a tuple.

t3=(10,6,8,7,9,0,6,5)

print(len(t3))

15.write a python program to convert a tuple into a dictionary.

def convert(tup,di):

for a,b in tup:

di.setdefault(a,[]).append(b)

return di

tups=[("akash",10),("gowtham",12),("ajay",25)]

dictionary={}

print(convert(tups,dictionary))

16.write a python program to reverse a tuple.

def reverse(tuple):

new\_tuple=tuple[::-1]

return new\_tuple

tuple=(1,2,3,4,5,6,7,8,9)

print(reverse(tuple))

17.write a python program to convert a list of tuples into a dictionary.

l=[("x",1),("y",2),("z",3)]

d={}

for a,b in l:

d.setdefault(a, []).append(b)

print(d)

18.write a python program to convert a list in to a tuple.

def convert(list):

return tuple(list)

list=[1,3,4,6,7,8]

print(convert(list))