**PYTHON ASSIGNMENT DAY 12**

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**1.Differentiate between list,tuples and dictionary.**

Ans: **List**

List contains data of different types.The data in the list are separated with comma and enclosed within square brackets[].

**Tuple**

Like list tuples also contains data of data types.The data stored in the tuples are separated with a comma and enclosed within parantheces().

**Dictionary**

It is an ordered set of key value pair of items.It is like an associate array or harsh table where each key stores a specific values.The data stored in the dictionary is separated with comma and enclosed within curly braces{}.

**2.Write a python program to iterate over dictionaries using for loop**.

Ans: s={1:1,3:9,5:25,7:49,9:81}

for i in s:

print(s[i])

**3.Write a python program to sum all the items in adictioanary.**

Ans: def returnSum(myDict):

sum=0

for i in myDict:

sum=sum+myDict[i]

return sum

dict={‘a’:300,’b’:200,’c’:300}

print(“Sum:”,returnSum(dict))

**4.Write a python script to concatenate following dictionaries to create a new one.Sample dictionary:**

**a.dic1={1:10,2:20}**

**b.dic2={3:30,4:40}**

**c.dic3={5:50,6:60}**

Ans: 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)

**5.Write a python script to check whether a given key already exists in a dictionary.**

Ans: def checkKey(dict,key):

if key in dict.keys():

print(“key is present in the dictionary”,end=” “)

print(“value=”,dict[key])

else:

print(“key is not present in the dictionary”)

dict={‘a’:100,’b’:200,’c’:300}

key=’b’

checkKey(dict,key)

key=’s’

checkKey(dict,key)