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Differentiate between list, tuples and dictionary?

List: List contains data of different types. The data stored in the list are separated with a comma(,) and enclosed within square brackets []. Example:a=[1,"hi","python",2]

Tuple: Like list tuples also contains data of data types. The data stored in the tuples are separated with a comma(,) and enclosed within parentheses(). Example:t=("hi",2)

Dictionary: It is an ordered set of key value pair of items .It is like an associative array or a harsh table where eack Key stores specific value. The data stored in the dictionary are separated with a comma(,) and enclosed within curly braces{}.

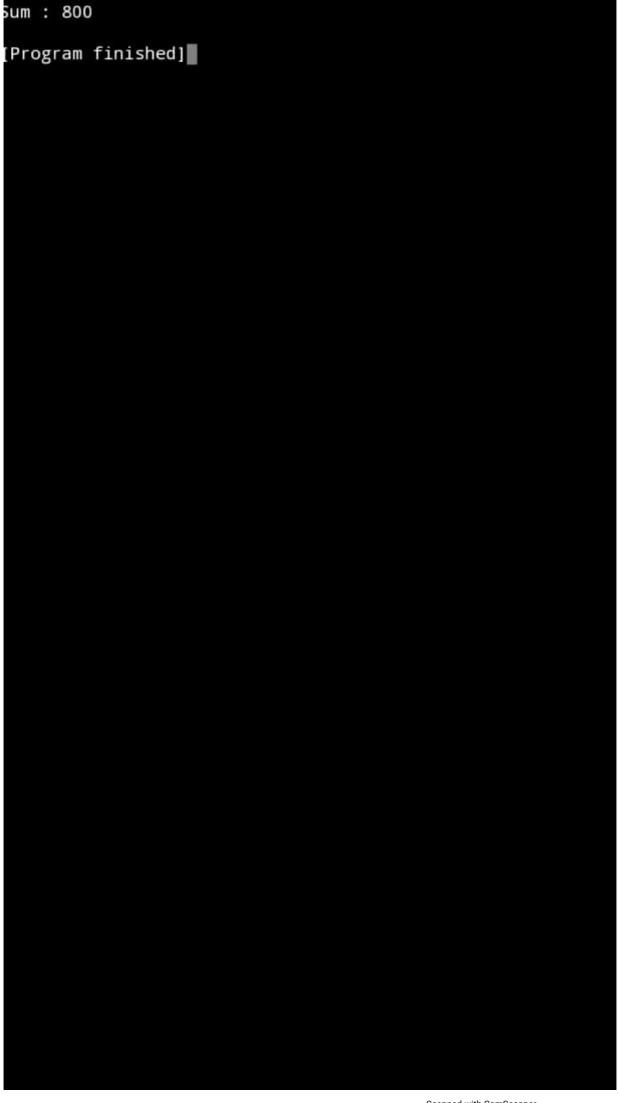
```
#Program to iterate over dictionaries
using for loops.
squares={1:1,3:9,5:25,7:49,9:81}
for i in squares:
    print(squares[i])
```



```
# Program to find sum of all items in a
dictionary.

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))
```





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

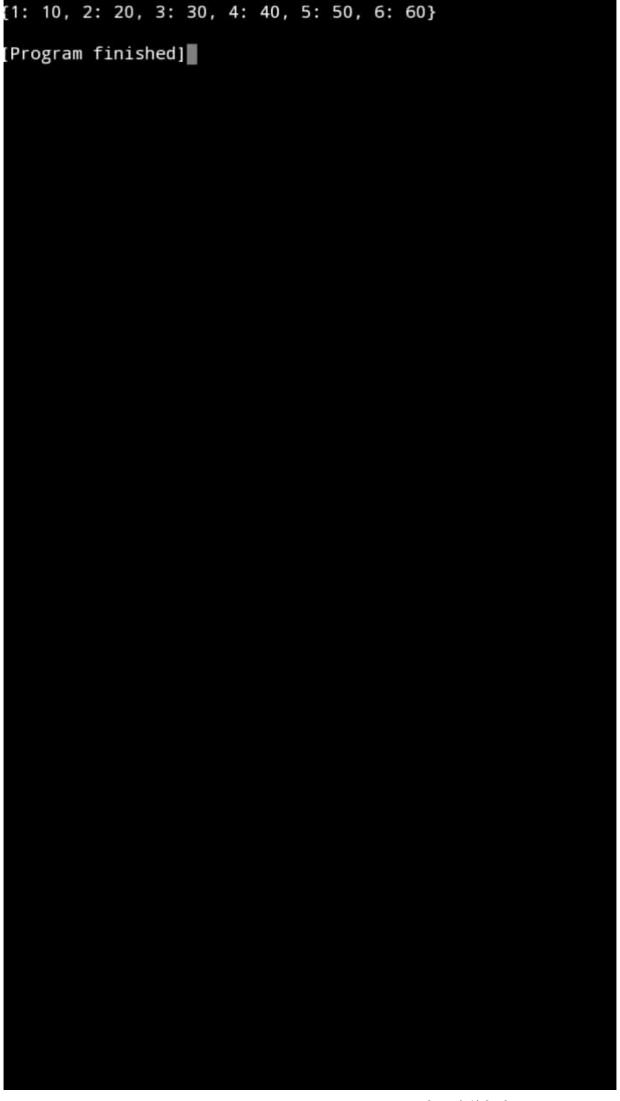
dic1={1:10, 2:20}

dic2={3:30, 4:40}

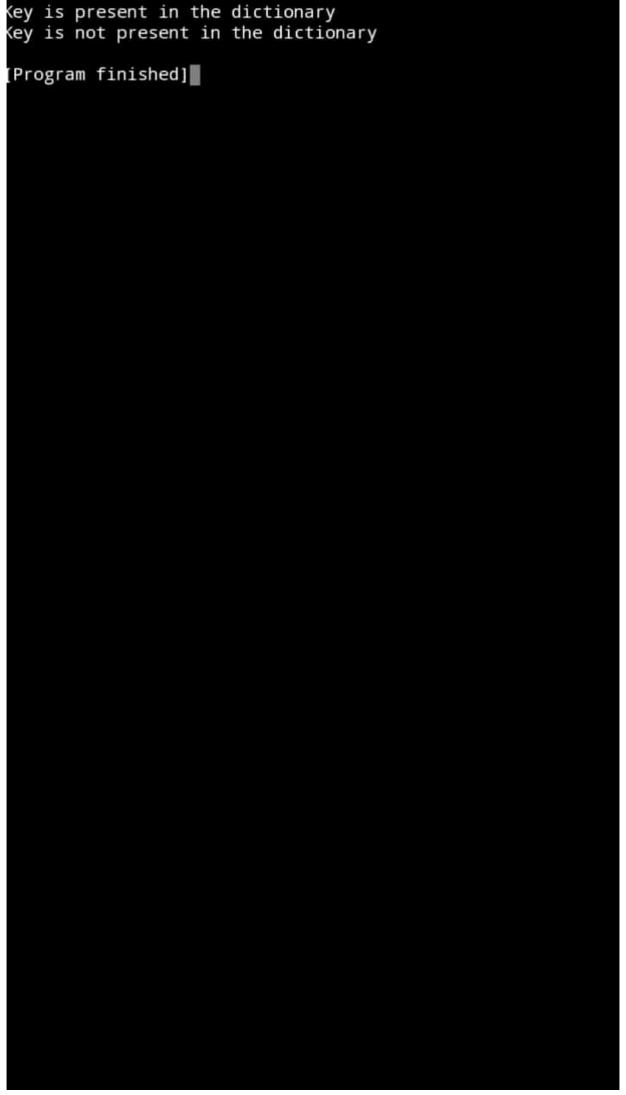
dic3={5:50,6:60}

dic4 = {}

for d in (dic1, dic2, dic3): dic4.update(d)
print(dic4)



```
#write a python script to check whether a
    given key already exists in a dictionary.
    d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
 3
    def is_key_present(x):
     if x in d:
 4
 5
        print('Key is present in the dictionary')
 6
     else:
        print('Key is not present in the
    dictionary')
    is_key_present(5)
 8
    is_key_present(9)
10
```



```
#Write a python script to check whether a
    given key already exists in a dictionary.
 2
    def checkKey(dict, key):
 3
       if key in dict.keys():
 4
         print(" Key is present in the dictionary,
    ", end =" ")
 5
         print("value =", dict[key])
 6
       else:
         print(" Key is not present in the
    dictionary")
    dict = {'a': 100, 'b':200, 'c':300}
 8
 9
    key = 'b'
10
    checkKey(dict, key)
    key = 's'
11
    checkKey(dict, key)
12
```

