Python Assignment - 12

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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{ }.

```
1  #Program to iterate over dictionaries
   using  for loops.
2  squares={1:1,3:9,5:25,7:49,9:81}
3  for i in squares:
4      print(squares[i])
5
6
```

```
1
9
25
49
81

[Program finished]
```

```
1  #  Program to find sum of all items in a
   dictionary.
2  def returnSum(myDict):
3      sum = 0
4      for i in myDict:
5          sum = sum + myDict[i]
6      return sum
7  dict = {'a': 300, 'b':200, 'c':300}
8  print("Sum :", returnSum(dict))
```

```
Sum : 800

[Program finished]
```

```
1  #write a python script to concatenate
   following dictionaries to create new one.
2  dic1={1:10, 2:20}
3  dic2={3:30, 4:40}
4  dic3={5:50,6:60}
5  dic4 = {}
6  for d in (dic1, dic2, dic3): dic4.update(d)
7  print(dic4)
```

```
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

[Program finished]
```

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

```
Key is present in the dictionary
Key is not present in the dictionary

[Program finished]
```

```
#Write a python script to check whether a given key already exists in a dictionary.
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)
```

```
Key is present in the dictionary, value = 200
Key is not present in the dictionary

[Program finished]
```