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In [2]: #3 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)
        sum of elements in the list is: 100
In [4]: #4 python program to create a list of empty dictionaries.
        n=3
        l=[{} for _ in range(n)]
        print(1)
        [{}, {}, {}]
In [6]: #5 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)
        original dictionary is:{'hello': 32, 'gitam': 12, 'hyderabad': 21, 'banglor
        e': 36, 'vizag': 5}
        key values are:
        hello
        gitam
        hyderabad
        banglore
        vizag
In [7]: #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)
        banglore 32
        vizag 12
        hyderabad 21
        mumbai 36
        chennai 5
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In [8]: #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))
         sum of items in the dictionary: 35
In [9]: #8 python script to concatenate the following dictionaries to create a new on
         e. 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)
         {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
In [10]: #10 python program to create a tuple.
         t=5,10,15,20,25
         print(t)
         (5, 10, 15, 20, 25)
In [11]: #11 python program to create a tuple with different data types.
         t1=(1,6.9, "hi", False)
         print(t1)
         (1, 6.9, 'hi', False)
In [12]: #12 python program to convert a tuple in to a string.
         tuple=('h','e','l','l','o')
         str=''.join(tuple)
         print(str)
         hello
In [13]: #13 python program to slice a tuple
         t=(2,4,3,5,4,6,7,8,6,1)
         slice=t[3:5]
         print(slice)
         (5, 4)
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In [14]: #14 python program to find the length of a tuple
         t3=(10,6,8,7,9,0,6,5)
         print(len(t3))
         8
In [15]: #15 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))
         {'akash': [10], 'gowtham': [12], 'ajay': [25]}
In [16]: #16 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))
         (9, 8, 7, 6, 5, 4, 3, 2, 1)
In [17]: #17 python program to convert a list of tuples into a dictionary.
         l=[("x",1),("y",2),("z",3)]
         d=\{\}
         for a,b in 1:
             d.setdefault(a, []).append(b)
         print(d)
         {'x': [1], 'y': [2], 'z': [3]}
In [18]: #18 python program to convert a list in to a tuple.
         def convert(list):
             return (*list, )
         list = [1, 2, 3, 4]
         print(convert(list))
         (1, 2, 3, 4)
```

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In []: #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: d1={"apple":1,"mango":2,"pineapple":4} apple,mango,bana na are keys 1,2,4 are known **as** values.