**Assignment – Use the dictionary, port1 = {21: "FTP", 22:"SSH", 23: "telnet", 80: "http"}, and make a new dictionary in which keys become values and values become keys, as shown: Port2 = {“FTP":21, "SSH":22, “telnet":23,}**

port1={ 21: 'ftp', 22: 'ssh', 23: 'telnet', 80: 'http'}

port2={}

for k,v in port1.items():

port2[v]=k

print(port2)

**Output** - {'ftp': 21, 'http': 80, 'ssh': 22, 'telnet': 23}

port2={v:k for k,v in port1.items()}

print(port2)

**{'ftp': 21, 'http': 80, 'ssh': 22, 'telnet': 23}**

**Assignment – Take a list of tuple as shown below.**

**[(1,2), (3,4), (5,6),(4,5)]**

**Make a new list which contains sum of number of tuples.**

list1=[(1,2),(3,4),(5,6),(4,5)]

list2=[]

for i in list1:

list2.append(i[0]+i[1])

list2

**Output-** [3, 7, 11, 9]

list2=[]

#list comprehension

[list2.append(i[0]+i[1]) for i in list1]

list2

**[3, 7, 11, 9]**

**Assignment –Take a list as shown below**

**[(1,2,3), [1,2], ['a','hit','less']]**

**The List contains tuple and lists. Make the elements of inner lists and tuples to outer list**

l=[(1,2,3),[1,2],["a","hit","less"]]

l2=l[1]+l[2]

l1=list(l[0])

l1.append(l2)

print(l1)

**Output- [1, 2, 3, [1, 2, 'a', 'hit', 'less']]**

l=[(1,2,3),[1,2],["a","hit","less"]]

l2=[]

for i in l:

if type(i)==tuple:

l1=list(i)

if type(i)==list:

l2=l2+i

l1.append(l2)

print(l1)  
**[1, 2, 3, [1, 2, 'a', 'hit', 'less']]**