Assignment - 12

1A. import numpy as np

```
d = {'a':1,'b':2,'c':3,'d':1}
# using set to get uniq val from dic
print(list(set(list(d.values()))))
# using np to get uniq val from dic
from collections import Counter
print(*Counter(list(d.values())))
print(list(np.unique(np.array(list(d.values())))))
```

2A.

```
import numpy as np
d = {'a':1,'b':2,'c':3,'d':1}
sum(d.values())
```

3A.

```
d1 = {'a':1,'b':2,'c':3,'d':1}
d2 = {'e':1,'f':2,'g':3,'h':1}
d1.update(d2)
d1 = {'a':1,'b':2,'c':3,'d':1}
d2 = {'a':4,'f':5,'g':6,'h':7}
d1.update(d2)
d1 = {'a':1,'b':2,'c':3,'d':1}
d2 = {'a':4,'f':5,'g':6,'h':7}
{**d1,**d2}
```

4A.

```
#  Using zip function

p = {'a':[1,2,3],

   'b':['ab','ae']}

dict(zip(p['a'],p['b']))    # zip combines values of list of one value with values of list of other value
```

5A.

```
# Ordered Dict

from collections import OrderedDict


my_ordered_dict = OrderedDict([('Will', '1'), ('James', '2'), ('Rob', '4')])

print("The dictionary is :")

print(my_ordered_dict)

my_ordered_dict.update({'Mark':'7'})

my_ordered_dict.move_to_end('Mark',last=False)

print(my_ordered_dict)
```

6A.

```
def checkOrder(input, pattern):


   dict = OrderedDict.fromkeys(input)


   ptrlen = 0

   for key,value in dict.items():

      if (key == pattern[ptrlen]):
```

```
            ptrlen = ptrlen + 1
        if (ptrlen == (len(pattern))):
            return 'true'
    return 'false'
```

7A.

```
for i in sorted (list(d.values())) :
    print ((i, list(d.values())[i]), end =" ")
```