

```
# how to find the dictionary methods in python
```

```
print(dir(dict),end=' ')
```

```
['__class__', '__class_getitem__', '__contains__', '__delattr__',  
 '__delitem__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__',  
 '__getattr__', '__getitem__', '__getstate__', '__gt__',  
 '__hash__', '__init__', '__init_subclass__', '__ior__', '__iter__',  
 '__le__', '__len__', '__lt__', '__ne__', '__new__', '__or__',  
 '__reduce__', '__reduce_ex__', '__repr__', '__reversed__', '__ror__',  
 '__setattr__', '__setitem__', '__sizeof__', '__str__',  
 '__subclasshook__', 'clear', 'copy', 'fromkeys', 'get', 'items',  
 'keys', 'pop', 'popitem', 'setdefault', 'update', 'values']
```

```
d1 = {7:8,8:89,4:67,3:90,"python":"internship"}
```

```
print(d1,type(d1))
```

```
{7: 8, 8: 89, 4: 67, 3: 90, 'python': 'internship'} <class 'dict'>
```

```
# get() # It prints the value in dictionary
```

```
print(d1.get(3))
```

```
print(d1.get("python"))
```

```
90
```

```
internship
```

```
# keys(),values(),items()
```

```
print(d1.keys())
```

```
print(d1.values())
```

```
print(d1.items())
```

```
dict_keys([7, 8, 4, 3, 'python'])
```

```
dict_values([8, 89, 67, 90, 'internship'])
```

```
dict_items([(7, 8), (8, 89), (4, 67), (3, 90), ('python',  
 'internship')])
```

```
# adding new key and value to the dictionary
```

```
d1["age"]=56
```

```
print(d1)
```

```
{7: 8, 8: 89, 4: 67, 3: 90, 'python': 'internship', 'age': 56}
```

```
d1[67]=45.8
```

```
d1[8]=6.8
```

```
d1[9]=5.7
```

```
print(d1)
```

```
{7: 8, 8: 6.8, 4: 67, 3: 90, 'python': 'internship', 'age': 56, 67:  
 45.8, 9: 5.7}
```

```
# pop()
```

```
d1.pop("age") # It deletes particular key in the dictionary
```

56

```
print(d1)
```

```
{7: 8, 8: 6.8, 4: 67, 3: 90, 'python': 'internship', 67: 45.8, 9: 5.7}
```

```
# popitem() # It deletes last key and value in the dictionary  
d1.popitem()
```

```
(9, 5.7)
```

```
print(d1)
```

```
{7: 8, 8: 6.8, 4: 67, 3: 90, 'python': 'internship', 67: 45.8}
```

```
# copy()  
k = {1:2,4:8,7:89,8:90}  
j = k.copy()  
print(j,k)
```

```
{1: 2, 4: 8, 7: 89, 8: 90} {1: 2, 4: 8, 7: 89, 8: 90}
```

```
# update()  
print(d1)
```

```
{7: 8, 8: 6.8, 4: 67, 3: 90, 'python': 'internship', 67: 45.8}
```

```
d1.update({3:190})  
d1
```

```
{7: 8, 8: 6.8, 4: 67, 3: 190, 'python': 'internship', 67: 45.8}
```

```
d1.update({"python":"APSSDC"})  
d1
```

```
{7: 8, 8: 6.8, 4: 67, 3: 190, 'python': 'APSSDC', 67: 45.8}
```

```
# clear()  
d1.clear()
```

```
d1
```

```
{}
```

```
d = {7: 8, 8: 6.8, 4: 67, 3: 190, 'python': 'APSSDC', 67: 45.8}  
for i in d:  
    print(i,end=' ')
```

```
7 8 4 3 python 67
```

```
d = {7: 8, 8: 6.8, 4: 67, 3: 190, 'python': 'APSSDC', 67: 45.8}  
for i in d.items():  
    print(i,end=' ')
```

```

(7, 8) (8, 6.8) (4, 67) (3, 190) ('python', 'APSSDC') (67, 45.8)
d = {7: 8, 8: 6.8, 4: 67, 3: 190, 'python': 'APSSDC', 67: 45.8}
for i in d.values():
    print(i,end=' ')

8 6.8 67 190 APSSDC 45.8

d = {7: 8, 8: 6.8, 4: 67, 3: 190, 'python': 'APSSDC', 67: 45.8}
for i in d.keys():
    print(i,end=' ')

7 8 4 3 python 67

d = {7: 8, 8: 6.8, 4: 67, 3: 190, 67: 45.8}
for i in d:
    if(i%2==0):
        print(i,end=' ')

8 4

# i/p: [1,2,3,4,5]
# o/p: {1:1,2:4,3:9,4:16,5:25}
li = [1,2,3,4,5]
d = {}
for i in li:
    d[i]=i**2
print(d)

{1: 1, 2: 4, 3: 9, 4: 16, 5: 25}

```

Task - 01

i/p: 10 o/p: {1:2,2:9,3:28,.....10:1001}