

# DICTIONARY

## ASSIGNMENTS

1. Is dictionary more useful than list, if yes then how?
2. Slicing/concatenation is applicable over dictionary?
3. Differentiate list and dictionary.
4. Why lists can't be used as keys?
5. Read the code shown below carefully and pick out the keys?  
`dict = {'freya':10, 'mohak':1}`
6. Suppose `dict = {'freya':10, 'mohak':1}`, to delete the entry for "freya" what command you will write?
7. Suppose `dict = {'freya':10, 'mohak':1}`, what happens when we try to retrieve a value using the expression `dict["amit"]`?
8. What will be the output?  
`dict = {'freya':10, 'mohak':1}`  
`print('amit' in dict)`
9. What will be the output?  
`dict = {}`  
`dict[1] = 11`  
`dict['1'] = 20`  
`dict[1] = dict[1] + 1`  
`count = 0`  
`for i in dict:`  
`count += dict[i]`  
`print(count)`
10. What will be the output?  
`dict = {1:'X', 2:'Y', 3:'Z'}`  
`del dict[1]`  
`dict[1] = 'D'`  
`del dict[2]`  
`print(len(dict))`

11. What will be the output?

```
dict = {}  
dict['dict']= 1  
dict['b']=[2, 3, 4]  
print(dict)
```

12. What is the output of the following code?

```
dict={1:'dict',2:'B',3:'C'}  
for i,j in dict.items():  
    print(i,j,end=' ')
```

13. What is the output of the following piece of code?

```
x={1:'A',2:'B',3:'C'}  
y={4:'D',5:'E'}  
x.update(y)  
print(x)
```

14. What is the output of the following code?

```
x={1:'A',2:'B',3:'C'}  
y=x.copy()  
y[2]='D'  
print(x)
```

15. What is the output of the following code?

```
x={1:5,2:3,3:4}  
x.pop(3)  
print(x)
```

16. What is the output of the following code?

```
a={1:'A',2:'B',3:'C'}  
for i in a:  
    print(i,end=' ')
```

17. What is the output of the following code?

```
a={1:'A',2:'B',3:'C'}  
print(a.items())
```

18. What is the output of the following snippet of code?

```
numbers={1:5,2:22}
letters={3:'B'}
comb={}
comb['numbers'] = numbers
comb['letters'] = letters
print(comb)
```

19. What is the output of the following code?

```
dict={}
dict[2]=1
dict[1]=[2,3,4]
print(dict[1][1])
```

20. What is the output of the following piece of code?

```
a={'B':5,'A':9,'C':7}
b=sorted(a)
print(b)
```

21. What is the output of the following snippet of code?

```
a={i: i*i for i in range(6)}
print(a)
```

22. What is the output of the following snippet of code?

```
a={i: 'A' + str(i) for i in range(5)}
print(a)
```

23. What will be the output of the following code snippet?

```
dict = {}
dict[(1,2,4)] = 18
dict[(4,3,1)] = 10
dict[(1,3)] = 12
sum = 0
for k in dict:
    sum += dict[k]
print (sum)
```

24. What will be the output of the following code snippet?

```
dict = {"Name" : "Python"}
r = dict.copy()
print(id(r) == id(dict))
```

25. What will be the output of the following code snippet?

```
dict = {'Name' : 'Python'}
id1 = id(dict)
del dict
dict = {'Name' : 'Python'}
id2 = id(dict)
print(id1 == id2)
```

26. Given the following dictionary:

```
inventory = {
    'gold' : 500,
    'pouch' : ['twine', 'gemstone'],
}
```

Try to do the followings:

- \*Add a key to inventory called 'packet'
- \*Set the value of 'packet' to 'seashell', 'strange berry'
- \*sort()the items in the list stored under the 'pouch' key

27. Create a new dictionary called fruits using {} format like the example above.

Put these values in your fruits dictionary:

```
"banana": 2,
"apple": 4,
"orange": 2.5,
"pear": 4
```

Loop through each key in fruits. For each key, print out the key along with its price and stock information. Print the answer in the following format:

```
apple
price: 2
stock: 0
```

Let's determine how much money you would make if you sold all of your fruits.