

Session 17-18

Basics of Python

Python Collections (lists, tuples, sets,
Dictionaries)

Assignment 9

Python Collections (Assignment-8)

1. What will be the output?

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

a. Dictionary comprehension doesn't exist	b. {0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6:36}
c. {0: 0, 1: 1, 4: 4, 9: 9, 16: 16, 25: 25}	d. {0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25}

2. What will be the output?

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

a. [2,3,4]	b. 3
c. 2	d. An exception is thrown

3. What will be the output?

```
test = {1:'A', 2:'B', 3:'C'}
del test[1]
test[1] = 'D'
del test[2]
print(len(test))
```

a. Error as the key-value pair of 1:'A' is already deleted	b. 0
c. 2	d. 1

4. What will be the output?

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

a. 1 A 2 B 3 C	b. 1 2 3
c. A B C	d. 1:"A" 2:"B" 3:"C"

5. What will be the output?

```
a=[1, 4, 3, 5, 2]
b=[3, 1, 5, 2, 4]
print(a==b)
print(set(a)==set(b))
```

False
True

6. Suppose d = {"john":40, "peter":45}, to delete the entry for "john" what command do we use?

a. d.delete("john":40)	b. d.delete("john")
c. del d["john"]	d. del d("john":40)

7. Suppose d = {"john":40, "peter":45}. To obtain the number of entries in dictionary which command do we use?

a. d.size()	b. len(d)
c. size(d)	d. d.len()

8. What will be the output?

```
l=[1, 2, 3, 4, 5, 6, 7, 8, 9]
[x**3 for x in l]
```

Error

9. What will be the output?

```
s=["pune", "mumbai", "delhi"]
[(w.upper(), len(w)) for w in s]
```

a. Error	b. ['PUNE', 4, 'MUMBAI', 6, 'DELHI', 5]
c. [PUNE, 4, MUMBAI, 6, DELHI, 5]	d. [('PUNE', 4), ('MUMBAI', 6), ('DELHI', 5)]

10. What will be the output?

```
print([i+j for i in "abc" for j in "def"])
```

['ad', 'ae', 'af', 'bd', 'be', 'bf', 'cd', 'ce', 'cf']

11. What will be the output?

```
x = [i**+1 for i in range(3)]; print(x);
```

[0, 1, 2]

12. What will be the output? [('H',1), ('E',1), ('L',1), ('L',1), ('O',1), (' ', 1), ('W',1), ('O',1), ('R',1), ('L',1), ('D',1)]

```
my_string = "hello world"
k = [(i.upper(), len(i)) for i in my_string]
print(k)
```

13. What will be the output?

```
a= [1, 2, 3, 4, 5]
for i in range(1, 5):
    a[i-1] = a[i]
for i in range(0, 5):
    print(a[i],end = " ")
```

Error

14. What will be the output?

```
a=[45,]*4
print((45)*4)
print(a)
```

45

Reference:

<https://pynative.com/python-numbers-quiz/>

<https://www.sanfoundry.com/python-questions-answers-built-in-functions-1/>

<http://letsfindcourse.com/technical-questions/python-mcq-questions/function>

http://r4r.in/mcqs/learn.php?test_id=4&subid=1&subcat=Python&test=Data%20type%20in%20python





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