

Python Basic Assignment - 05

1. What does an empty dictionary's code look like?

There are two ways in which empty dictionary's code look like

(a) {} (b) dict()

2. What is the value of a dictionary value with the key 'foo' and the value 42 ?

As we know that in dictionary data exist in a key-value pair. Index for dictionaries are called keys, and a key with its associated value is called key-value pair.

```
den = { 'foo' : 42 }
```

3. What is the most significant distinction between a dictionary and a list?

A list is an ordered sequence of objects, whereas dictionaries are unordered sets. Most significant difference between List and Dictionary is that dictionary holds the data in key-value pair . List consists the data/ values within "[]" brackets while dictionaries consists the data with in "{}" brackets.

4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?

```
spam = {'bar' : 100}
```

if we execute spam['foo'] it will fail and show following error

```
-----  
-----  
KeyError: Traceback (most recent call last)  
<ipython-input-2-9b5a94d1de8d> in <module>  
----> 1 spam['foo']  
KeyError: 'foo'
```

5. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.keys() ?

There is no difference. The 'in' operator checks whether a 'cat' exists as a key in the dictionary. 'cat' in spam checks whether there is a 'cat' key in the

dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam .

In both the cases output is 'True'

6. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.values()?

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7. What is a shortcut for the following code?

```
if 'color' not in spam:
```

```
    spam['color'] = 'black'
```

```
    spam.setdefault('color', 'black')
```

8. How do you "pretty print" dictionary values using which module and function?

Use pprint() to Pretty Print a Dictionary in Python

Use json.dumps() to Pretty Print a Dictionary in Python

Use yaml.dump() to Pretty Print a Dictionary in Python