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

dict = {}

type(dict)

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

{'foo':42}

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

Most significant difference:

List - items in list are Ordered

Dictionary : iten in dictionary are unordered

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

spam = {'bar':100}

spam['foo']

This gives an error.

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KeyError Traceback (most recent call last)

<ipython-input-3-ea2a9c778d47> in <module>()

**1**

**2** spam = {'bar':100}

----> 3 spam['foo']

**4** #This will give us key error

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()?**

spam ={'cat':100}

'cat' in spam

OR

'cat' in spam.keys()

There is no difference, both check if 'cat' is key of the dictionary and if it’s a key, returns True.

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

spam ={'cat':100}

'cat' in spam

OR

spam ={'cat':100}

'cat' in spam.values()

'cat' in spam checks whether there is a 'cat' key in the dictionary.

'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam. Then returns false.

**7. What is a shortcut for the following code?**

**if 'color' not in spam:**

**spam['color'] = 'black'**

spam ={'cat':100}

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

spam

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

import pprint

dct = [ {'Name': 'Vaibhav', 'Age': '27', 'Country': 'India'},

{'Name': 'Girish', 'Age': '34', 'Country': 'Singapore'},

{'Name': 'Lucy', 'Age': '29', 'Country': 'UK'},

{'Name': 'Shweta', 'Age': '35', 'Country': 'USA'}

]

pprint.pprint(dct)