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

**items= {} or items= dict()**

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

**{‘foo’, 42}**

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

**Items in dictionaries are accessed via keys and list items are accessed via their position/Index. A list is an ordered sequence of objects, whereas dictionaries are unordered sets**

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

**Error will appear as there is no such key defined .**

**---------------------------------------------------------------------------**

**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()? **None , both check any key is there as ‘cat’**

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

**'cat' in spam checks any key is there in Dict as cat but 'cat' in spam.values() checks is there any value captured as cat for any keys in the dict.**

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**spam.setdefault('color', 'black') BY default set the color as Black**

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

**pprint.pprint(spam)**