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

Ans.1

Two curly brackets :{}

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

Ans.2

{‘foo’:’42}

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

Ans.3

Items stored in dictionary are unordered while Items stored in list are ordered.

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

**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()?

Ans.5

There is no difference. The in operator checks whether a value exists as key in a disctionary.

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

Ans.6

'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.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans.7

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

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

import pprint

import sys

pprint.pprint(sys.stdout)

output:

<ipykernel.iostream.OutStream object at 0x000001DFD8410388>