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

ANS:-

Two curly brackets: {}

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

ANS:-

{'foo': 42}

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

ANS:-

Lists are used to store the data, which should be ordered and sequential. On the other hand, dictionary is used to store large amounts of data for easy and quick access. List is ordered and mutable, whereas dictionaries are unordered and mutable.

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

ANS:-

We get a KeyError error.

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

ANS:-

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

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

ANS:-

'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:-

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

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

ANS:-

pprint.pprint()