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

{}

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

42

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

Dictionaries contain data in the form of a key value pair, list contains plain data.

In order to access the values of a dictionary we need to use their keys, unlike lists where we need to use their index.

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

We will get a key error since this key is not present in the dictionary.

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

‘Cat’ in spam will return True if ‘cat’ appears in the dictionary’s keys. The same will happen for ‘cat’ in spam.keys()

1. 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 will return True if ‘cat’ appears in the dictionary’s keys. ‘cat’ in spam.values() will return True if ‘cat’ appears in the dictionary’s values.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

We can skip the if statement and just write:

spam['color'] = 'black'

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

from pprint import pprint; pprint(dictionary)