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

# The code is {}

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?

# The items stored in a dictionary are unordered, while the items in a list are ordered.

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

# You get a KeyError error since foo is not present in the given list

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

# There is no difference. The in operator checks whether a value exists as a key 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.values()?

# 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'

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

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

# pprint.pprint()