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

And: a={}

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

Ans: a={‘foo’:42}. Value is 42.

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

Ans: lists are ordered sequences and accessed elements via its position. In dictionary, it is key, value pair unordered sets. And values are accessed using keys.

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

Ans: we get KeyError

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

Ans: 'cat' in spam checks whether ‘cat’ exists in spam and ‘cat’ in spam.keys() checks whether ‘cat’ is value in spam.

1. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans: spam.setdefault(‘color’,’black’)

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

Ans: The module is pprint. The functions are pprint.pprint( ) and pprint.pformat().