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

D1={}

Or

D1=dict()

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

D1={‘foo’: 42}

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

1. items in lists are ordered while in dictionary they are unordered.

2. In list values are stored in an order but in dictionary it is stored as keys and values and keys help us in unique ways to check for a data.

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

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()?

No difference both checks whether there is ‘cat’ 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()?

'cat' in spam checks whether cat is present as a key value in the dictionary and 'cat' in spam.values() checks whether cat is present as a value for any key in the dictionary.

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()