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

Dict={} will create an empty dictionary

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

42 will be the value.

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

dictionary stores value in a key-value pair where index can be in string format whereas in list index is always numeric.

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

KeyError error will be thrown as there is no key with string ‘foo’ in spam

5. 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 either way output True will be returned.

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

There is no difference either way output True will be returned.

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?

The module is pprint.

The functions are pprint.pprint() and pprint.pformat().