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

{}

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

{‘foo’:42}

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

List doesn’t have key value pair but dictionary does.

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

It will throw an error

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

Both are same

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 is to validate ‘cat’ is a key or not and ‘cat’ in spam.values() is to validate ‘cat’ is in values or not

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

spam[‘color’] = spam.get(‘color’, ‘black’)

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

Pprint – module

pprint() - function