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

Ans : d = {}

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

Ans: d = {}

d['foo'] = 42

print(d.values())

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

Ans: In list insertion order is preserved. But in dict insertion order is not preserved. We access list elements through it's index value. But we access dict values through it's keys.

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

Ans: If we try to access spam['foo'] where spam is {'bar': 100}, we will get KeyError: 'foo'

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

Ans: If a dictionary is stored in spam, the expressions 'cat' in spam checks the value if present in keys and 'cat' in spam.keys() checks the value if present in keys of dict.

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

Ans: If a dictionary is stored in spam, the expressions 'cat' in spam checks the value if present in keys and 'cat' in spam.values() checks the value if present in values of dict.

7. What is a shortcut for the following code?

Ans: The shortcut key is - spam.setdefault('color', 'black')

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

Ans: Within the pprint module there is a function with the same name pprint(), which is used to pretty-print the given string or object.