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

Ans:- An empty pair of curly braces {}.

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

Ans:- mydic = {'foo': 42}

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

Ans:- A list is an ordered sequence of objects, whereas dictionaries are unordered sets. However, the main difference is that items in dictionaries are accessed via keys and not via their position.

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

Ans:- Error:- 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:- No Difference.

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

Ans:- 'cat' in spam will checks that 'cat' exists as a key in spam or not where 'cat' in spam.values() checks whether 'cat' is a value in spam.

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