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

Ans : empty dictionary looks like :

🡪Dict1={}

🡪Type(dict1)

Output: dict

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

Ans :The value of dictionary is 42.

Dict1={‘foo’:42} 🡪 syntax : dict ={key:value}

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

Ans : a list is an ordered set of data whereas dictionary is un-ordered set of data.

Also, List has elements to it identified by indexes whereas, dictionary has keys mapped to each value.

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

Ans: It will through an error as there is no key defined to spam.

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

Ans : there is no difference. It will check for ‘cat’ as key in dictionary. There is no difference. The in operator checks whether a value exists as a key in the dictionary. 'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.

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

Ans: Here, cat in spam will check for key value, where as spam.values() check for any value as ‘cat’.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

Ans : By using pprint() method.