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

dict\_name = dict() or dict\_name = {}

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

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

Dictionaries have data stored in key-value pair format and it can be access using key. List stores only data values and it can be access using index no.

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

It will give KeyError for ‘foo’ as it is not present in spam dictionary.

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

Spam[‘cat’] will give value stored for ‘cat’ key and spam.keys() will give list of all keys present in spam dictionary.

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

Spam[‘cat’] will give value stored for ‘cat’ key and spam.values() will give list of all values present in spam dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

This can be done using setdefault() function as below:

spam.setdefault('color','black')

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

Using ‘pprint()’ function from ‘pprint’ module

Import pprint

pprint.pprint(dict\_name)