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

Ans : - {}

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

Ans : - {“foo” : 42}

Dictionary\_value = 42

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

Ans : - List is simply the collection of all the elements having the index which are separated by comma “,” but in dictionary elements are held in key and value manner.

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

Ans .- “foo” is not available as a key in the dictionary and hence will return an error.

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

Ans . – “cat” in the spam may be a key or a value but “cat” in spam.keys() would find the “cat” in keys of spam and will return the true or false.

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

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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.: import pprint

my\_dict = {'key1': 'value1', 'key2': 'value2', 'key3': {'nested\_key1': 'nested\_value1', 'nested\_key2': 'nested\_value2'}}

pprint.pprint(my\_dict)