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

An empty dictionary is represented by a pair of curly braces with nothing between them.

My\_dict={}

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

my\_dict = {'foo': 42}

value = my\_dict['foo']

print(value)

Output: 42

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

List is ordered and mutable, whereas dictionaries are unordered and mutable.

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

You will encounter a KeyError because the key 'foo' does not exist in the dictionary spam.

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'cat' in spam checks for ‘cat’ in the dictionary.

'cat' in spam.keys() checks if ‘cat’ is present in the keys.

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

'cat' in spam checks for ‘cat’ in the dictionary.

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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?

import pprint

my\_dict = {'key1': 'value1', 'key2': 'value2', 'key3': 'value3'}

pprint.pprint(my\_dict.values())

pprint module and pprint.pprint function.