1. What does an empty dictionary's code look like?
   1. my\_dict = {}
2. What is the value of a dictionary value with the key 'foo' and the value 42?

my\_dict = {'foo': 42}

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

unordered collection of key-value pairs, while a list is an ordered collection of values.

each key is associated with a value, each element has an index

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

Key error

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': 1}

'cat' in spam # True

'cat' in spam.keys() # True

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': 1}

1 in spam.values() # True

'cat' in spam.values() # False

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

import pprint

my\_dict = {'name': 'John', 'age': 25, 'city': 'New York'}

pprint.pprint(my\_dict)