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

{}

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

{‘foo’:42}

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

The most significant distinction between a dictionary and a list is that a dictionary is an unordered collection of key-value pairs, whereas a list is an ordered collection of elements. In a dictionary, values are accessed by their corresponding keys, whereas in a list, values are accessed by their indices

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

I will fill find ***key error*** because the key does not exist in the list.

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

The expression 'cat' in spam checks if the string 'cat' is a key present in the dictionary spam. It will return True if 'cat' is a key in spam and False otherwise.

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

The expression 'cat' in spam.values() checks if the string 'cat' is a value present in the dictionary spam. It will return True if 'cat' is a value in spam and False otherwise.

**7. What is a shortcut for the following code?**

if 'color' not in spam:

spam['color'] = 'black'

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

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

import pprint

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

pprint.pprint(my\_dict)