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

= an empty pair of curly braces.

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

= tmp = {'foo': 42}

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

= Lists are ordered collections of items, whereas the dictionary is an unordered collection of data in a key: value pair form. Both lists and dictionaries are mutable, i.e., you can add, edit, delete, or modify the elements.

The list is created by placing elements in [ ] separated by commas “,”.

The dictionary is created by placing elements in { } as “key”:”value”, each key-value pair is separated by commas “, “.

Lists are orders, mutable, and can contain duplicate values.

Dictionaries are unordered and mutable but they cannot contain duplicate keys.

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

= We can get key error as error.

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

= There is no difference, the expression " 'cat' in spam " checks whether 'cat' is a key in spam.

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

= There is no difference, the expression " 'cat' in spam " checks whether 'cat' is a key in spam.

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?

= The module is pprint.

The functions are pprint.pprint() and pprint.pformat().