1. What does an empty dictionary's code look like? Ans: {}

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

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

Ans: A dictionary is a collection of key, value pairs, whereas a list is a collection of items.

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

Ans: We get a KeyError: 'foo'

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

No difference if the dictionary spam contains a key ‘cat’, both statements would result in True.

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 difference, 'cat' in spam would yield True value and 'cat' in spam.values() would yield false as there is a key ‘cat’ in the dictionary spam.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans:

spam={'bar': 100,'color':'black'}

b={k:v for k,v in spam.items() if 'color' in spam.keys()}

b

Output:

{'bar': 100, 'color': 'black'}

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

Ans: By importing pprint module and using the pprint() function.

One has to pass the dictionary as a parameter to the pprint() function.