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

dict = {}

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

dict = {‘foo’: 42}

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

- list can contain any datatype in it itself while dictionary can only be in the form of key-values and those key-values should be of the same datatype.

- lists start with the index ‘0’ for the values while dictionaries start with the assigned/unsorted key-value pair

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

spam[‘foo’] = ‘bar’:100

5. What is the difference between the terms 'cat' in spam and 'cat' in spam if a dictionary is contained in spam?

‘cat’ in spam is a value while ‘cat’ in a dictionary can be the key but can also be the value

What is the function keys()?

the function keys() returns all the keys in the specific dictionary which consists of key-value pairs

6. What is the difference between the terms 'cat' in spam and 'cat' in spam.values() when a dictionary is contained in spam?

the invocation spam.values() returns the value ‘cat’ belonging to a paired key of the dictionary ‘spam’

the term ‘cat’ in spam is the value itself which will be returned

7. What is the quickest way to type the following code?

word = ‘colour’

if not (word in spam):

spam[‘color’] = ‘black’

if the word 'colour' isn't in spam:

'black' for spam['color']

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

by using ‘PrettyPrinter’ of the module ‘pprint’