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

My\_dict={}

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

42

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

List are ordered collection of elements which can be referenced by its indices. Dictionaries is unordered collection of data that can be referenced by its keys

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

This will result in key value pair

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

‘cat’ in spam checks the keys directly in the dictionary while cat in spam.keys() creates a list of keys and then searches for cat in the new list.

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

‘cat’ in spam checks for keys that are named cat

‘cat’ in spam.values() searches for the word cat in a list of values of the dictionary (excluding the keys)

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?

Module:pprint

Function: pprint.pprint()