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

* Dict = {} -> this is how an empty dictionary looks like, to confirm that we can check the type of Dict

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

* Dict = {‘foo’:42} -> the value for the key ‘foo’ is 42

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

* Items in list are ordered, mutable and allows duplicate values and items in dictionary are unordered, mutable and dictionaries does not allow duplicate values with the same key in it.

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

* As the key value ‘foo’ is not present in spam dictionary it throws a key error

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

* Spam = {‘cat’:100}
* So ‘cat’ in spam and ‘cat’ in spam.keys() results as true, both check if there is ‘cat’ key that is present in keys of spam dictionary or not

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 if ‘cat’ key is present in spam dictionary or not as it is there it results true, ‘cat’ in spam.values() check if the ‘cat’ is present in values of spam dictionary or not

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

* spam.setdefault(‘color’:’black’) -> this assigns spam with a default key value pair as color and dictionary

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

* Using pprint module and pprint.pprint() fuction