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 is the value

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

Ans: dictionary will have the keys and values, with dictionary we can create a data frame, list is just collection of elements

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

Ans : foo is not mentioned in dictionary so error

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

Ans: both retrieve the same result , only difference is in spam.keys() it is examing the keys of dictionary to determine is particular key exists

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

Ans: cat in spam will check cat is a key in dictionary spam ,while cat in sapam.values checks if cat is value of any dixtionary values

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans : spam.setdefault('color', 'black')

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

Ans: import pprint