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 - {‘foo’:4}

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

Ans : list contains any kind of single data separated by commas

Dictionary contains data in form of pairs one is key and second is values

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

Ans : it will give keyerror

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

Ans : there is no difference 'cat' in spam checks whether cat exists or not and

'cat' in spam.keys() checks whether cat exists or not as a key

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 no difference. The in operator checks whether a value exists as a key in the dictionary. 'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam. values() checks whether there is a value 'cat' for one of the keys in spam .

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

my\_dict = {'name': 'John', 'age': 30, 'city': 'New York'}

pprint.pprint(my\_dict)