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

Ans:dict1={}

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

Ans: 42

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

ANS: Dictionary is unordered collection of key,value pairs. List is an ordered collection of different types of data.

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

Ans: An exception called KeyError Exception will be raised.

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

Ans: ‘cat’ in spam is for checking whether ‘cat’ is a key in the dictionary but ‘cat’ in spam.keys() will check whether ‘cat’ is there in the list of keys in the dictionary.

1. 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 is for checking whether ‘cat’ is a key in the dictionary but ‘cat’ in spam.values() will check whether ‘cat’ is there in the list of values in the dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans: spam.setdefault({‘color’:’black’})

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

Ans: using json module and dumps function we can do pretty print dictionary values.pprint is also a module and function that can be used for the pretty printing.