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

**d={}**

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

**d={‘foo’:42}**

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

**Dictionary takes a key value pair as an element whereas list is index based and can take any data type as its element.**

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

**It gives an error!**

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

**No difference, because in dictionary the keys are indexed, thus ‘cat’ in spam will generate True and ‘cat’ in spam.keys() will also generate True**

1. 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 will generate True as it checks all the keys in spam.**

**‘cat’ in spam.values() will generate False as ‘cat’ is a key and the system will check all the values.**

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**spam.setdefault('color','black')**

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

**dump() function of the yaml module or**

**pprint() function of pprint module**