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

Sol. **d={} ,**

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

Sol. **{“foo”: 42}**

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

**Sol. Representation of dict is {} and list is represented by [] and list is an ordered and slicing can be Can be performed by indexing whereas dict is unordered and slicing can be performed by keys and values.**

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

Sol. Complier will show **KeyError: ‘foo’**

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

Sol. **Both represents keys (in dict spam and in spam.keys() hence no difference )**

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

**Sol. difference between the expressions 'cat' in spam and 'cat' in spam.values() is expression ‘cat’ represents key and spam.values() represents the value of the keys**

1. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**Sol. spam.setdefault(‘color’,’black’)**

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

Sol. **module is pprint**

**And function is pprint.pprint**

**it is used to print the output with different orientation**