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

Dict={}

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

42

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

Dictionary is a key value pair while list is a sequence .

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

Throws KeyError

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

Cat in spam checks if cat key is present in spam whereas spam.keys just gives the output as the number of keys present in the dictionary spam

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 --- checks if cat key is there in the dictionary

Cat in spam.values() – checks if cat is existing as a value in the dictionary

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?

pprint.PrettyPrinter().pprint()