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?

A={‘foo’:42}

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

Most significant difference:  
List - items in list are Ordered  
Dictionary : iten in dictionary are unordered

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

It gives us error as keyerror as key is not defined.

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

Spam={‘cat’:42}🡪 cat in spam

Spam={‘foo’:’cat}🡪 ‘cat’ in spam.keys()

1. 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 differnce, both check if 'cat' is key of the dictionary and if its a key, returns True.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

a=’color’

if (’a’ not in spam.keys()):

spam['color'] = 'black'

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

from pprint import pprint

pprint is the module and pprint is the function in it.

from pprint import pprint

pprint(users) 🡪 gives us dictionary and we can fetch values and keys from there.