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

{}

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

{foo:42}

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

List is a sequence of elements, Dictionary is a item of Key and Value pair

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

Key Error : foo -> key error is raised

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

No difference. " in" operator checks as expression cat , whether cat exist as a key,

"In" operator checks where key cat is present in spam.keys()

6. 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 is a key and 'cat' in spam.values() is a value for a key

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

pprint.pprint({})

print(json.dumps({},sort_keys=False, indent=1))

print(yaml.dump({}, sort_keys=False, default_flow_style=False))