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 orderd sequence and dictionary is inorderd. in list elemets are stored as it is but in dictionary elemets are stord in key value pair**

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

**it will show keyerror**

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**

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

**expression 'cat' checks wherther 'cat' key is present in dictionary and spam.values() checks that is there any value named 'cat' is present in dictionary**

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?

**module: pprint**

**function: PrettyPrinter()**