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

**Ans:** An empty dictionary is often represented by two empty curly brackets  
d = {} or d = dict()

**2.what is the value of dictionary value with key 'foo' and the value 42 ?**

**Ans:** {'foo':42}

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

**Ans:** Dictionaries are represented by {} where as listed are represented by []  
The Items stored in a dictionary are Unordered , while the items in a list are ordered

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

**Ans:** we will get a keyError KeyError: 'foo'

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

**Ans:** There is no difference . The operator checks whether a value exits as a key in the dictionary or not

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

**Ans:**'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

**7.what is a shortcut for the following code ?**

if 'color' not in spam: spam['color'] ='black'

**Ans:** spam.setdefault('color','black')

**8.How do you 'pretty print' dictionary values using which modules and function ?**

**Ans:** we can pretty print a dictionary using three functions

1. by using pprint() function of pprint module
   * **Note:** pprint() function doesnot prettify nested dictionaries
2. by using dumps() method of json module
3. by using dumps() method of yaml module