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

**Answer:**  demo\_code ={} or demo\_code= dict()

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

**Answer:**  a= {“foo”:42}

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

**Answer:**  In **list** we have only value but in  **dictionary**  we have value and key pair. In **list** we can retrieve value by indexing but for **dictionary**  we have to use key to retrieve value.

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

**Answer:**  it shows an error . the message contains “foo” key not found in dictionary

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

**Answer :** 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()?

**Answer: ’** “cat” in spam ‘ shows if ‘cat’ key present in ‘spam’ dictionary where ‘cat’ in spam.values() shows if ‘cat’ value present in ‘spam’ dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**Answer:** spam.setdefault(‘color’,’black’)

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

**Answer :** import json

My\_dict={‘name’:’Alice’, ‘age’:33,’city’:’New york’}

print(json.dumps(My\_dict,indent=3))