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

**l={ }**

**here l is an empty dictionary**

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 contains data in a single unit but dictionary has the data as a key and value pair.**

**List is represented by square brackets and dictionary represented by curved brackets.**

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

**Got below mentioned error**

**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()?

**Both gives the same result, both commands search whether ‘cat’ is available in spam dictionary as a key or not, if ‘cat’ available in spam dictionary keys it gives the output as True otherwise it gives the output as False.**

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 command search dictionary keys only whether ‘cat’ is available or not if available it gives output as True otherwise False.**

**‘cat’ in spam.values() command search dictionary values only whether ‘cat’ is available or not if available it gives output as True otherwise False.**

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()**