**1. What does the code for an empty dictionary look like?**

Ans. d={}

**2. What does a dictionary value with a key 'foo' and a value 42 look like?**

Ans. {'foo':42}

**3. What is the main difference between a dictionary and a list?**

Ans. List: It contains the value of any data type. Just a value. We can take the values inside by its index number. We can change the value by refering its index number.

Dictionary: It is a pair of key and values {key:value}. Whenever we need to take the value we should refer to its key. We can replace the value or update the value by its key name.

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

Ans. If spam ={'bar',100}. On accessing the spam['foo'], it will giv ethe keyerror because there is no such key 'foo' in spam dictionary

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

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

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

Ans. spam['color']='black'

**8. What module and function can be used to “pretty print” dictionary values?**

Ans. from **pprint** import **pprint**

Module: pprint function: pprint