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

An empty dictionary in python can be initiated using two way as shown in the examples below.

Eg :

Dict1 = dict()

print(Dict1)

Eg :

Dict1 = {}

print(Dict1)

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

42

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

Dictionaries consist of key value pairs but List is a collection of different data types.

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

spam = {'bar': 100}

spam[‘foo’] will results in key error but spam[‘bar’] results 100.

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

spam = {‘cat’ : ‘meow’, ‘dog’ : ‘boww’}

spam[‘cat’]

out : meow

spam.keys()

out : dict\_keys(['cat', 'dog'])

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

spam = {‘cat’ : ‘meow’, ‘dog’ : ‘boww’}

spam[‘cat’]

out : meow

spam.values()

out : dict\_values (['meow', 'boww'])

**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?**

By using pprint function from pprint module