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

**{ }**

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

**{foo:42}**

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

**A list is a random or biased collections of index value pair-like arrays whereas is a dictionary is a structure of keys –values pair.**

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

**KeyError: 'foo'**

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

**no difference if ‘cat’ is a key in spam.**

**If enlisted as key in both cases it is true else false for both case.**

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

**First one is true if there is a key called ‘cat’ in spam else false**

**Second one is true if ‘cat’ is enlisted as values of any key inside that dictionary else False**

7. What is a shortcut for the following code?

if 'colour' not in spam:

spam['colour'] = 'black'

**‘colour’: ‘black’ will be added after the rightest key: value of spam.**

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

**can be done in three ways 1. import pprint> pprint. Pprint(#dictarray)**

**2.by json module importing > print(json.dumps(#dictarray , indent = #any desired value))**

**3.by importing yaml as module >print( yaml.dump(#dictarray)) as function**