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

Ans: {} the empty dictionary does not contain key and value pair.

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

Ans: {‘foo’:42}

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

Ans:1)list:a)Item have defined ordered which cannot be changed.

b)It is mutable and items can be modified any time.

c)Items with the same values are allowed

Eg.[1,2,True,”husna”,2]

2)dictionary :a)It is an unordered collection and can’t be changed.

b)Dictionaries are mutable but keys are immutable.

c)do not allow duplicate items with same keys.

Eg.{‘key1’:42,’key2’:87}

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

Ans:spam={‘bar’:100}

Spam[‘foo’]

o/p: we get key value error .

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

Ans: There is no difference .the operator check whether the value as a key in dictionary.

Eg. spam={‘cat’}

‘cat’ in spam.keys()

o/p:True

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

Ans:’cat’ in spam.values() checks whether ’Cat’ is one of the keys of spam.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans: spam.setdefault(‘color’,’black’)

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

Ans: pprint()