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

**Ans 1:** dict\_name = {}

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

**Ans 2: 42**

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

**Ans 3: Dictionary** stores data in key and value pair and has non-continuous memory location, whereas list store data in single value and in continuous memory location.

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

**Ans 4: key 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 5:** spam[‘cat‘] -> output is the value related to this key.

Spam.keys() -> output is the key ‘cat ’ itself.

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

**Ans 6: spam[‘cat’] ->** output is the value related to the key ‘cat’

Spam.values() -> output is the value related to the key ‘cat’.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

**Ans 7:** spam.setdefault(‘color’,’black’)

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

**Ans 8:** import pprint as pp

data =[

{'name':'Abhay','rollno':231,'mob':1234567890,'sta' :{'as','dsf',234}},

{'name':'Abhay','rollno':231,'mob':1234567890,'sta' :{'as','dsf',234}},

{'name':'Abhay','rollno':231,'mob':1234567890},

{'name':'Abhay','rollno':231,'mob':1234567890},

{'name':'Abhay','rollno':231,'mob':1234567890},

{'name':'Abhay','rollno':231,'mob':1234567890,'sta' :{'as','dsf',234}},

{'name':'Abhay','rollno':231,'mob':1234567890},

{'name':'Abhay','rollno':231,'mob':1234567890},

{'name':'Abhay','rollno':231,'mob':1234567890,'sta' :{'as','dsf',234}}

]

pp.pprint(data)

**OUTPUT :**

[{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231, 'sta': {'as', 234, 'dsf'}},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231, 'sta': {'as', 234, 'dsf'}},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231, 'sta': {'as', 234, 'dsf'}},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231},

{'mob': 1234567890, 'name': 'Abhay', 'rollno': 231, 'sta': {'as', 234, 'dsf'}}]