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

Ans. Two curly brackets: {}

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.

|  |  |  |
| --- | --- | --- |
| Parameters | List | Dictionary |
| Basics | A list refers to a collection of various index value pairs like that in the case of an array in C++. | A dictionary refers to a hashed structure of various pairs of keys and values. |
| Creation | We can create a list by placing all the available elements into a [ ] and separating them using “,” commas. | We can create a dictionary by placing all the available elements into a { } in the form of a key:vale. Here, we have to separate each pair of available key-values using the “,” commas. |
| Data Type | The indices in the case of a list are basically integers that start from the value 0. | The keys present in a dictionary can easily be of any given data type. |
| Mode of Accessing | We can access the elements in a key using indices. | We can access the elements present in a dictionary using the key-values. |
| Order of Elements | The entered order of elements is always maintained. | We don’t have any guarantee of maintaining the order of the available elements. |

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

Ans. You get a KeyError error.

1. 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 in operator checks whether a value exists as a key in the dictionary.

1. 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 checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in 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.pprint()