

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

Ans: `d = {}` or `d = dict()`

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

Ans: `{'foo':42}`

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

Ans: Dictionary is unordered and lists are ordered. Dictionaries are represented by `{}` and lists are represented by `[]`.

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

Ans: Get an error message since 'foo' is not an element of `spam`. `KeyError: 'foo'`

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

Ans: No difference.

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` checks if '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 modules and functions ?

Ans: by using `pprint()` function of `pprint` module.