

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

Ans: An empty dictionary is often represented by two empty curly brackets

`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: Dictionaries are represented by `{}` where as listed are represented by `[]`

The Items stored in a dictionary are Unordered , while the items in a list are ordered

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

Ans: we will get a `keyError` `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: There is no difference . The operator checks whether a value exists as a key in the dictionary or not

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 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 modules and function ?

Ans: we can pretty print a dictionary using three functions

1. by using `pprint()` function of `pprint` module
 - Note: `pprint()` function doesnot prettify nested dictionaries
2. by using `dumps()` method of `json` module
3. by using `dumps()` method of `yaml` module