

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

Ans: `d= {}`

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

Ans: 42

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

Ans: dict is represented with {} in key:value format, while list represented with [] with comma to separate 2 items.

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

Ans: `KeyError` will occur because there is no keyword named '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

`spam = {'cat': 100}`

`'cat' in spam`

➔ True

`'cat' in spam.keys()`

➔ 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` 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: Module is pprint and function is pprint()

```
import pprint  
  
dct_arr = [  
    {'Name': 'John', 'Age': '23', 'Country': 'USA'},  
    {'Name': 'Jose', 'Age': '44', 'Country': 'Spain'},  
    {'Name': 'Anne', 'Age': '29', 'Country': 'UK'},  
    {'Name': 'Lee', 'Age': '35', 'Country': 'Japan'}  
]  
  
pprint.pprint(dct_arr)
```

**Output:**

```
[{'Age': '23', 'Country': 'USA', 'Name': 'John'},  
 {'Age': '44', 'Country': 'Spain', 'Name': 'Jose'},  
 {'Age': '29', 'Country': 'UK', 'Name': 'Anne'},  
 {'Age': '35', 'Country': 'Japan', 'Name': 'Lee'}]
```