# Assignment-5

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

Ans.) The code of empty dictionary has variable declaration on the left hand side and empty and closed curly braces ( {} ) on the right hand side.  
For Example :-   
 result = {}

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

Ans.) The value of key ‘foo’ will be 42.

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

Ans.) The dictionary stores data in the form of key-value pair where the value can be of any datatype where as Lists store data in their actual form with indexing only. The another most significant difference between Dictionary and List is their declaration, dictionaries are declared using curly braces ( {} ) while lists are declared using square brackets ( [] ).

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

Ans.) By searching spam[‘foo’] if spam={‘bar’:100} , you will get an KeyError.

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

Ans.) The expression ‘cat’ in spam checks whether key named ‘cat’ exists in spam while cat in spam.keys() first retrieves all the keys of spam and then checks whether the key ‘cat’ exists in spam.

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

Ans.) The expression ‘cat’ in spam checks whether key named ‘cat’ exists in spam while cat in spam.values() first retrieves all the values of spam and then checks whether the value ‘cat’ exists in any of the key 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.

import pprint

pp = pprint.PrettyPrinter(indent=4)

pp.pprint(mydict)

We first import pprint module and then create an instance of PrettyPrinter with indent of our choice/requirement and then we print the instance.