

# Python Exercises #2

## Mission 1 : Dictionary

Dictionary called **hash table** in other languages and its goal is to provide a direct access to its items.

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| Code | Definition |
| my\_dict = {} | Define an empty new dictionary type variable |
| my\_dict = {“mykey”:”mykey value”} | Define a new dictionary type variable with a key called **mykey** |
| my\_dict = {“mykey”:”mykey value”}  print(my\_dict[“mykey”]) | Print out the value of the **mykey** |
| my\_dict = {“mykey”:”mykey value”}  my\_dict[“newkey”] = “value2” | Append new key value pair to an existing dictionary |
| for i in my\_dict:  print(i) | Natively iteration over dictionaries run through its keys as main object. |
| my\_dict.values() | Return only values from dictionary |
| my\_dict.keys() | Return only keys from dictionary |
| my\_dict.items() | Return key value pairs from dictionary |

Provided with the next string:

mystring = “Its a great opportunity”

1. Iterate over the string and create a new dictionary of letters as a key and the number its repeated as a value. If you encounter space, just pass it through.
2. Iterate over the string and create a new dictionary of two keys - first key called **upper** and its values is the number of uppercase letters and the second key called **lower** and its values is the number of lowercase letters. If you encounter space, just pass it through.
3. Following task no. 2, save the output to a file in the following template:

*there are 10 uppercase letters*

*there are 12 lowercase letters*