TECHNION
Azrieli Continuing Education and External Studies Division

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.

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