

Assignment 2 - Python tutorial 2

June 29, 2019

0.1 Assignment 2

0.1.1 Problem

Write a script that reads the attached text file “The sun has set” and computes the number of occurrences of each letter. The output must be a dictionary “number” such that number[‘a’] is the number of occurrence of letter ‘a’.

0.1.2 Resolution

We must open the file “The sun has set.txt” and read it. After we can count the letters and save them in a dictionary. Below it can be seen the code:

```
In [1]: import string
```

```
number = {}
f1=open("The sun has set.txt", "r")
if f1.mode == 'r':
    contents = f1.read()

    for c in string.ascii_lowercase:
        #print(c, ":", contents.count(c))
        number[c] = contents.count(c)
    for c in string.ascii_uppercase:
        #print(c, ":", contents.count(c))
        number[c] = contents.count(c)
    print("The dictionary is: ", number)
```

The dictionary is: {'a': 21, 'b': 5, 'c': 8, 'd': 13, 'e': 29, 'f': 2, 'g': 4, 'h': 29, 'i': 2}

We can do the same thing without distinguish from upper case and lower case in this way:

```
In [2]: number2 = {}
f2=open("The sun has set.txt", "r")
if f2.mode == 'r':
    contents2 = f2.read()
    contents2 = contents2.lower()
    for c in string.ascii_lowercase:
```

```
#print(c, ":", contents.count(c))
number2[c] = contents2.count(c)
print("The dictionary is: ", number2)
```

The dictionary is: {'a': 22, 'b': 6, 'c': 8, 'd': 14, 'e': 31, 'f': 2, 'g': 4, 'h': 32, 'i': 2}