

Introduction to Python I (Exercises 06)

Text Files

- 1) Try some file system functions that come with the OS module.

Write a program that does the following:

- 1.1 Start by importing the os module

```
import os
```

- 1.2 Check your current directory by using the `os.getcwd()` method

Store the path in a string variable (the path returned by `os.getcwd()`)

- 1.3 List the files in your current directory by using the `os.listdir()` method.

- 1.4 List all files in your current directory with a name of 5 characters or less

- 1.5 Create (with notepad) a text file in your current directory and check if the file exist from inside your python script by using the `os.path.isfile(p)`. Prompt the user for the file name, and display a suitable message (file exists or does not exist!)

- 1.6 Create a new directory (by hand) inside your current working directory. Then, from inside your python script, change directories so that you point to the new directory you just created, use the `os.chdir()` method. Display your new current directory by using `os.getcwd()`

- 1.7 Create a new directory, but this time from inside your python script by using the `os.mkdir()` method.

- 2) Write a small text file in notepad (maybe 3 lines)

Save the file somewhere in the pc where you have access. Attention sometimes the root of your c: drive is not accessible.

Open the file and display all the lines on the screen (one line at a time)

- 3) Write a program that asks the user for strings and writes them to a file. The program stops asking for strings if we type 'Q' or 'q'.

Check the file in Notepad or any other editor.

- 4) Write a program that reads a text file and loads all the words in a dictionary. Keep count of the number of occurrences of each word in your dictionary. Assume words are delimited by spaces.

Print all the words in your dictionary with the number of times they occur.