

Lab2

Topic: Lists, Tuples, Sets, Dictionaries, File handling

Task 1.

Write a calendar script that can store programs for the next week. The script has to ask if the user wants to store a new program or list the program of a day. All the programs start exactly at 0 minutes (e.g. 10:00, 13:00) and they are exactly one hour long. The programs are stored only in the memory (not in files), so after the script finishes the execution all programs are lost.

Use a tuple to understand the days (Monday, Tuesday, ...) and use one list to store the programs. Assume that the user provides everything in the right format (no error handling needed)

```
s - Store program
l - List daily program
x - Exit
Choose from the list:s
Which day?Wednesday
What time?11
What is the program?ACIT4420 Lecture
s - Store program
l - List daily program
x - Exit
Choose from the list:s
Which day?Wednesday
What time?13
What is the program?ACIT4420 Lab
s - Store program
l - List daily program
x - Exit
Choose from the list:s
Which day?Wednesday
What time?16
What is the program?Finishing lab exercises
s - Store program
l - List daily program
x - Exit
```

```
Choose from the list:l
Which day?Wednesday
0:00
1:00
2:00
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00 ACIT4420 Lecture
12:00
13:00 ACIT4420 Lab
14:00
15:00
16:00 Finishing lab exercises
17:00
18:00
19:00
20:00
21:00
```

Task 2.

Write a script that reads the given python.txt textfile and create a statistics about the words used.

- First read the textfile and remove the unnecessary characters such as comma, full stop, new line, quotation marks, apostrophe.
- Create a dictionary of word + occurrence pairs and fill it with the words of the text
- List all the words that are more than 3 times in the text with their occurrences

```
Van:9
to:14
has:5
for:15
He:8
language:9
of:9
programming:7
that:7
from:4
worked:5
he:13
was:5
and:16
is:7
Dutch:4
as:6
his:7
in:15
Python:11
ABC:5
Rossum:11
a:18
In:7
the:34
```