

Development Exercises – Lab 3.1

Goal: The target of these exercises is to enable the student to practice and master programming skills during the course.

Instructions: You are required to submit some programming assignments. However, it is STRONGLY recommended that you complete all of them. More practice, more mastery. Required exercises are denoted with **. Upload your source code and screenshots for the output for the test cases.

Programming Exercise	Description
	For all Exercises in Lab 3.1 (16 to 20) use unittest and ddt module in python
16	Given the math.ceil function, <ul style="list-style-type: none">- Define a set of unit test cases that exercise the function (Remember Right BICEP)
17*	Given the math.factorial function, Define a set of test cases that exercise the function (Remember Right BICEP)
18	Given the math.pow function, Define a set of test cases that exercise the function (Remember Right BICEP)
19*	Given the filecmp.cmp function, Define a set of test cases that exercise the function (Remember Right BICEP)
20*	Implement a class that manages a directory that is saved in a text file. The data saved includes: <ul style="list-style-type: none">a. Nameb. Emailc. Aged. Country of Origin The class should have capabilities to: <ul style="list-style-type: none">- Add new record- Delete a record- Look for a record by mail and age- List on screen all records

Reference

<https://docs.python.org/3/library/index.html>

<https://ddt.readthedocs.io/en/latest/index.html>