INTERNATIONAL UNIVERSITY VNUHCM

PRINCIPLES OF PROGRAMMING LANGUAGES

LAB 2. PYTHON COLLECTIONS

PURPOSE: After this lab, you are able to use Python strings[1] and functions[2].

EXERCISES:

L2E1. In Lab 1, you have written the first simple version of a calculator. In this advanced version, write a calculator that receives a single user input – as a whole – with *only one* arithmatic operator (+, -, *, /) and two integers; and finally, outputs the relevant calculation result; e.g., for the input: 2 * 3, the calculator will output its result: 6.

L2E2. Write a program to solve a quadratic equation ($ax^2 + bx + c = 0$, given user-inputs *a, b, c*) by defining your own Python functions.

a. Version 1: *a, b, c* are prompted to enter separately.

b. Version 2: *a, b, c* are entered as a single input from a user; e.g., 5x2 + 2x + 1 = 0

SUBMISSION: By the end of the lab, please compress all your Python source code into a zipped file (YourFullname.zip) and email it to the instructor (iu.subjects@gmail.com).

ABBREVIATIONS: L*x*E*y* = <u>L</u>ab *x* <u>E</u>xercise *y*

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[1] https://www.w3schools.com/python/python_strings.asp
[2] https://www.w3schools.com/python/python_functions.asp