2810ICT/7810ICT Software Technologies, Trimester 3, 2019

Workshop 1 - Python Revision 1

When	Day 1
Goal	In this workshop you will meet the laboratory demonstrator and the rest of the class, and practise some Python programming.
Mark	0

1. Preparation

Before your lab class:

- Make sure you are properly enrolled and have access to the PC lab where your class is held and that you can log into those PCs.
- Read all of this document.
- Review the lecture notes for day 1.
- Ensure that you have completed the Griffith Sciences Laboratory Induction test on Learning@Griffith, *within the last year*. Print or save the certificate and bring it to your lab class.

2. Workshop activities

2.1 Griffith Sciences Laboratory Induction check

- If you have not done this already, complete the test before the end of this class, so that we can record it.
- Look for the test in the organisation Griffith Sciences Laboratory Induction on Learning@Griffith.
- The tutor can help you find it, and there is a video showing how to enrol in it in Echo360.
- If you don't complete the test in on Day 1, you will still need to show that you have passed the training by Day 2.

2.2 Log into Dwarf

We will be using Dwarf, our student Linux host, in some future workshops. We need to check now that you have an account.

- Log into dwarf.ict.griffith.edu.au using the Putty terminal emulator for Windows. Use your normal Griffith credentials.

- If you can't log in, let the tutor know so we can request an account for you.
- If trying to access Dwarf from home, be aware that Dwarf can only be accessed within the Griffith intranet, or via Griffith's VPN.

By the way, Python is available on Dwarf's command line as python3 and may be a good way to work with Python scripting.

2.3 Task 1

Set up your Python programming environment:

- Make sure you can access the Python problem set
- Please see the Python problem set section of the L@G page for instructions on how to do this.

2.4 Task 2

Complete problem W1A5 in the Python problem set.

- This should be a fairly easy problem for people with prior Python experience. If you have not used Python before, the problem is still very solvable based on the content of the first lecture.
- If you are unable to solve this problem, you should discuss your difficulties with your tutor and/or campus convener. This course expects students to have a basic level of programming ability, and if you do not meet the pre-requirements for this course, you may find it difficult to pass.

2.5 Task 3

Complete the following problems as part of your Python revision. Your tutors will have some suggestions if you get stuck.

- W116 (arithmetic)
- W125 (arithmetic)
- W134 (Boolean expressions)
- W142 (Boolean expressions)
- W152 (conditional statements)
- W163 (conditional statements)
- W173 (iteration)
- W1l5 (functions)
- W1A4 (strings)

Masters students and undergraduates seeking more practice should also attempt:

- W174
- W185
- W1A6