Week 1

Monday, 14 September 2020 7:41 am

Meet your classmates

- What is your name?
- Which degree are you enrolled in?
- Something fun you did in the last week or two

Week 01 Tutorial Questions

1. Introduce yourselves, get to know your classmates - Why do they want to study computing? What do they want to learn from this course?
2. Get to know your tutor - How long have they been at UNSW? What are they studying? How can you get in contact with them?
3. Do you have any questions about the course so far? *eg course website, structure, assessments*
4. Is it OK to ask a really really basic question on the course forum?
5. I have a brain the size of a planet and been writing C programs since pre-school - do I need to read the course forum?
6. How do you make a peanut-butter sandwich?

   How could you break that process into steps?

   How could you break it down clearly enough that a computer could understand it?

   Maybe your tutor could do a live demonstration of a similar task following your exact instructions...

Important course information

- Lectures and tutorials are recorded
- Course material on WebCMS https://webcms3.cse.unsw.edu.au/COMP1511/20T3/
- Course forum https://discourse.cse.unsw.edu.au/20t3/comp1511/
- Submitting work via Autotest and Give
  - You can double check submissions on WebCMS, click on "View Autotests/Submissions/Marking"
  - Practise during today's lab
- Do not need to buy the textbook (most coding resources are free online)

My only rule: There are no stupid questions

- There is no assumed knowledge

How to do well in COMP1511

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- **Asking for help**... what I wish I knew earlier!
  - At any time: post on the course forum https://discourse.cse.unsw.edu.au/20t3/comp1511/
  - Ask during the tutorial or lab
    - 1 on 1 code help during the lab
  - Help sessions: extra 1 on 1 help with COMP1511 tutors
  - For personal queries, please email me
- Experiment (break things)
- Consistent effort
  - Tutorials: concentrated version of content
  - Labs: 1 on 1 help with tutors

Online learning tips

- Establish a routine
- Create accountability
- Ask for help

7. What is an operating system?

   What operating systems do your classmates run? The tute room? The CSE lab (and VLAB) computers?

   What are the differences between each of the various operating systems? What differences are there in their interfaces, and how do you interact with them?

   What are some different ways in which you can interact with a computer?

   What are the differences between graphical user interfaces and the command line? When might one be better than the other?

8. Discuss the following features of the sample program from lectures:

```c
// Basic Hello World program
// Marc Chee, September 2020

#include <stdio.h>

int main (void) {
    printf("Hello World\n");

    return 0;
}
```

   - the `\n`
   - Comments: What should go in a comment? What makes a good comment? How do comments improve program style?
   - Indenting and whitespace: What is indented in the sample program? Suggest why.

9. Write a C program, `face0.c`, that behaves as follows:

```
$ ./face0
~ ~
```

```
0 0
 o
 -
```

How would you compile this program?
How could we modify it to make a program, `face1.c`, look like this instead?

```
$ ./face1
~ ~
0 0
 o
\_/
```

- #include
- main
- \n
- Comments
- Indenting and whitespace
- printf
- Escape character \

Compile: dcc -o face0 face0.c

10. Logging In for the first time - This is the first part of the Lab, but since you can't see it in the lab until after you log in, the information is here:
    Once you are in your lab, one student from your pair should log into the lab computer.

    Logging in if you're online - You'll want to have a way to use a CSE Terminal from home. The simplest way to do this is via a system called VLAB that CSE has created. Check the Home Computing section of the Course Website for instructions!

    To log in, you use your zID (which looks something like `z1234567`) and your zPass (which is used to log into all other university online services).

    The CSE labs use the Linux operating system (not Windows or OSX or ...).

    When you log in, by default, you'll be using the xfce4 window manager, and you'll see a linux desktop.

    If you are asked to select a panel click on **use default settings**.

    Along with menus that you can see, such as the Applications Menu in the top left corner, it also has a simple menu you can access by **right-clicking anywhere on the desktop**.

    Have a look around and see if you can work out how to open a web browser.

Q10: Please complete during the lab

Lab goals

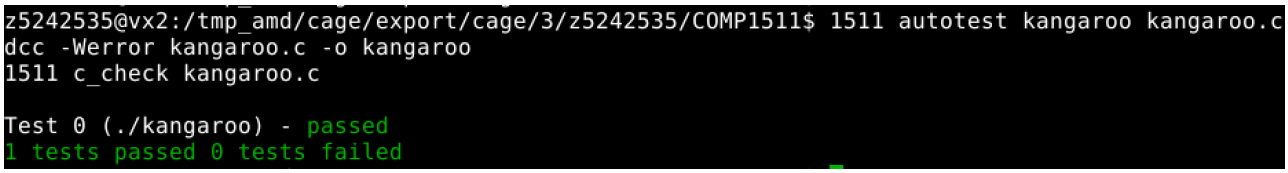
- [ ] Set up home computing (please ask for help!)
- [ ] Run autotest and give, so you're familiar with how to submit work

Extras

Access Microsoft Office (including OneNote) with your UNSW login: z5555555 @ad.unsw.edu.au

Tutorial code link:
https://github.com/dondonz/comp1511_tutorials_20t3

What autotest looks like



If you're wondering about tech careers, check out this careers guide from the UNSW Women in Technology club:
https://issuu.com/womenintechnology/docs/wit_2020_careers_guide