Assignment 2

You attend 1 of 3 assignment demo sessions:

- Friday 8th 17:15 19:00
- Friday 15th 10:00-12:00
- Friday 15th 14:00-16:00

You assess 4 other students

You demo to 4 students and will be assessed by 4 students.

Demo will be of submitted files

You must enter assessment of 4 other students' assignments.

20 grades for various attributes to be entered via online form

Mark will be obtained by median

Appeal possible to andrewt
Course Aims

This course aims to explore a range techniques, language and tools for the development of software systems.

 Hopefully you now:

• understand a wider range of programming languages, tools and techniques
• understand more about how/when to apply these languages, tools and techniques

You’ve been given only an introduction to these topics but you should be better equipped to:

• given a problem and choose language/tools
• construct a complete software system to meet the problem
• determine how correct/reliable/efficient the system is
• improve correctness/reliability/efficiency of the system
Syllabus/Topics

- Perl
- Regular expressions
- Shell
- Unix filters
- Generating web content with Perl (CGI)
- Intro Python (for Perl programmers)
- Language choice/comparison - cost, performance, security ..
- Performance tuning
- Version control, configuration (make)

All topics are potentially examinable but few exam questions on last 3.

exam-3
Assessment

Assessment summary from the introductory lecture:

\[
\begin{align*}
\text{ass} &= \text{mark for assignments} \quad \text{(out of 30)} \\
\text{labs} &= \text{mark for assessed labs} \quad \text{(out of 10)} \\
\text{exam} &= \text{mark for exam} \quad \text{(out of 60)} \\
\text{at\_pts} &= \text{assistant tutor points} \quad \text{(out of 20)}
\end{align*}
\]

\[
\text{okExam} = (\text{exam } \geq 30/60 \ \&\& \ \text{two implementation task solved})
\]

\[
\text{raw\_mark} = \text{ass} + \text{labs} + \text{pexam} + \text{texam}
\]

\[
\begin{align*}
\text{mark} &= \text{raw\_mark}, \quad \text{if raw\_mark } \leq; 80 + \text{at\_pts} \ \| \ \text{AT\_pts\_exemption} \\
&= 80 + (2*(\text{raw\_mark}-80) + \text{at\_pts})/3, \ \text{otherwise}
\end{align*}
\]

\[
\begin{align*}
\text{grade} &= \text{HD|DN|CR|PS } \text{if mark } \geq; 50 \ \&\& \ \text{okExam} \\
&= \text{FL} \quad \text{if mark } < 50 \ \&\& \ \text{okExam} \\
&= \text{UF} \quad \text{if } \text{!okExam}
\end{align*}
\]

Note: lab + ass marks will be available before the Final Exam.

Check via /home/cs2041/bin/classrun -sturec
Lab Marking

You should have checked your tutors has recorded appropriate lab marks for you.

Disagreements should be referred to me.

I’ll combine weekly lab marks into a lab mark out of 10
Exam

The exam will run in two sessions Friday 08/11

Sessions are 08:45-12:00 & 13:45-17:00

Internal exam run in CSE labs.

URL to indicate session preference e-mailed to you by Friday.

Seating details will appear on class web page by Tuesday 05/11.

Materials: None required ... **NOT** open book, Info Sheets supplied

Two parts, written and implementation.
Written Part 1

Must be completed during 1st 30 minutes of 3 hour exam.

No use of computer allowed during this part except to enter answers into application and view online documentation,

You can not run Perl or shell or ....

• Emphasis on reading Perl/Shell/Regular expressions

• Some questions will ask you to read codes and indicate what it does.

• Some questions will mostly be short answer

Exact format (skeleton exam) will be released several days prior to actual exam.
Written Part 2

Can be completed at any time during 3 hour exam.

- Some questions on Perl/Shell/Regular expressions/CGI
- Some questions might ask you to write code (e.g. CGI)
- Some questions on other lecture topics (configuration, python, version control, performance,...)

Exact format (skeleton exam) will be released several days prior to actual exam.
Implementation Part

Overview: 5 questions

You will get the implementation questions at the start of the 3 hours but you can not run Perl/Python/... or type them in until the first 30 minutes is up.

Almost all students spend the 30 minutes working on the written questions.

You must perform satisfactorily on the prac exam on the Exam to pass the course. This is defined as solving at least two of the questions completely.

Exact format (skeleton exam) will be released several days prior to actual exam.

- Closed Book.
- You will be given an info sheet with some basic Perl, Shell, C and Python functions and idioms.
Questions will describe a task and ask you to write a program that performs this task.

Questions will usually include examples.

A question may give you some code to start with - most/all will not.

No CGI in implementation part.

You may or may not be given test data or other files.

1 or more tests may be done on submission. This does not guarantee any marks. Do your own testing.

There may be no submission tests for some questions.

It is not sufficient to match any supplied examples.

You may use Perl, Shell, C, Java or Python to answer any question.
Implementation Part - Marking

- Your answers will be run through automatic marking software.
- Please follow the input/output format shown exactly.
- Please make your program behave exactly as specified.
- All answers are also hand marked. The automatic marking is to assist these markers.

- No marks awarded for style or comments.
- Use decent formatting so the marker (and you) can read the program.
- Comments only necessary if you want to tell the marker something.
- Minor errors will result in only a small penalty.
- E.g. an answer correct except for a missing semi-colon would receive almost full marks.
• No marks will be given unless an answer contains a substantial part of a solution (≥ 33%).

• No marks just for starting a question and writing some code
Special Consideration

By attending the exam, you are saying "I am well enough to sit it".

If you really are sick, stay home and apply for Special Consideration.

Applications for Special Consideration from people who sat the exam will be ignored.

Read the "Yellow Form" for details of under what conditions you might be eligible for a Supp .. it is not automatic.
Provisional Results

Provisional results will be made available via class-run when marking is complete - before Friday 22th. (I'll send e-mail).

Final results will appear on uni web pages (NSS).

The supplementary exams will only be available to students offered supplementary assessment by school or faculty examiners meetings.

Most people sitting the supplementary exams missed the original exam due to illness (and hence applied for special consideration).

The examiners meetings sometimes offer supplementary assessment to students with borderline results, e.g. with a final mark of 48 and passes in all other subjects.

Please don’t ask me if you can sit the supplementary exams. It is up to the examiners meeting.
If you are disadvantaged in some way you should apply for special consideration at the student centre.

Students who have passed the subject are not normally offered supplementary assessment.

Contact the school office to find out if your application for supplementary assessment has been successful.

There is no alternative to the supplementary exam - if you miss it your grade will be FL.
The Bad

Lecture time wasted

Late tute/lab questions

Poor integration of version control/make/performance

Not time for many things
The Good

Assignments

Most labs

Tutors

Students
And that’s all ...

Good Luck

I hope what you’ve learnt useful in this course will be useful.

I hope you get the mark you deserve.