COMP1021 Fall 2021
Final Exam Details

The Final Exam

- The COMP1021 final exam starts at 12:30pm on Wednesday 8 December 2021

- The arrangement for the final exam is similar to the arrangements for the practice and midterm exams

- So you have seen some of these slides before

- However, some things have been changed/added – make sure you go through every slide

Timing of the Final Exam

- **Wednesday 8 December 2021**
  - **12:10pm - 12:28pm** Make sure you are ready
  - *12:28pm Password for first part announced*
  - **12:30pm - 1:10pm** Final exam - first part
    (40 minutes long)
  - *1:10pm - 1:23pm Toilet break*
  - *1:23pm Password for second part announced*
  - **1:25pm - 2:05pm** Final exam - second part
    (40 minutes long)

Why Two Parts?

- The only reason for dividing the exam into two parts is to give you a break in the middle

Coverage of the Final Exam

- **For labs** - all the labs (lab 00 to lab 07)

- **For lectures** - everything discussed in the lectures

Where Can You Take The Exam?

- There are 1,200 students on the course

- It is almost impossible to book enough rooms at the same time for so many students

- Also, many students are not in HK

- So the exam has to be handled via the web

- Please find a quiet space and take the exam using a PC/Mac and good internet signal, and follow the Zoom video requirements - discussed later

Taking the Exam in one of our Rooms

- These rooms will be handled by Dr Alex Lam, lamngok@cse.ust.hk

- If you take the exam in a room monitored by us:
  - Bring your HKUST card and Hong Kong ID card
  - There will be someone there to supervise
  - You will be directed where to sit
  - There will be gaps between students in the rooms
  - Probably, there are no power sockets in the room
  - You must join the Zoom room
  - You don't need to turn on or use any video camera

Final Exam Details

- The exam is an open book, open notes exam

- There will be roughly 8 questions for each part

- Some questions may have more marks than others

- During the exam (both parts), if it helps you:
  - You can run Python using IDLE
  - You can refer to the web site e.g. the course notes
  - You can refer to other web sites, if you are certain there is no communication feature in that web site

Final Exam - A Quiet Room

- We have booked some rooms so there is a quiet place for you to take the final exam at HKUST

- Request a place by following the link on the course web site and adding your details

- We will email you a few days before the exam to tell you if your request is successful or not, depending on space

Students Outside Hong Kong

- Students outside Hong Kong can consider logging in to the Virtual Barn, then use the browser inside it

- Because the Virtual Barn is already inside HKUST, it means you can immediately get access to the course web site (no need to login to the course web site, even if you are in another country)

- If you are in the mainland or other place which has Internet restrictions then you may find this approach to be very useful

Extra Guidance

- Don't use any special language input e.g. Chinese language input

- As an emergency backup, it's wise to have a second device e.g. a tablet with bluetooth keyboard

Plug Everything In!

1. Make sure that your **laptop battery is fully charged**, and is **always plugged in**

2. Make sure that **your phone/tablet battery is fully charged**, and is **always plugged in**

3. **You must have the camera turned on, showing the correct things via Zoom** (see later)

Types of Question

- The style will be similar to the previous final exams – several will be released for you to see

- In the exam there may be 'make a program from scratch' kind of questions (but there can't be too many because there isn't much time)

- In other words, you may have to make a short program from nothing to work out the answer

- There may be multiple choice questions

We Will Send You the Exam

- 1-2 hours before the exam we will send the PDF file(s) containing your exam to your ITSC email account
  - The exam will be sent to you from **kelvinchiu@ust.hk**
  - Make sure your email quota is not full!
  - Check all your email folders to find the exam!
- Make sure you use only the exam sent to you
- Just before the exam starts we will tell you the password so you can open the PDF file
- Read the exam questions shown in your PDF file and enter your answers into the canvas system

During the Exam

- With 1,200 students taking the exam it is impossible for us to give good answers to any queries during the exam

- Also, you will disturb others if you ask something

- Prepare properly before the exam so that, hopefully, you don't have any issues once the exam begins

- You can email us after the exam if you think there is an issue with it

Referring to Things on Paper

- You can refer to things written on paper (such as notes, books) IF those items are visible in your video stream

- You can write things on paper IF your hands and the paper are visible in your video stream

- Just to be clear – you cannot touch or adjust your camera device during the exam

Copying Code From the Exam

- Sometimes you will be able to copy and paste things from the exam PDF file e.g. code, sometimes you won't

- If you can copy it then you are welcome to do that: e.g. you can select, copy, edit, and execute code

- However, when you copy code from a PDF file and paste it **the indentation is removed** - you need to fix it

- You could use the IDLE shell for quick tasks, or put the code in a program – see next slide

Running Code Given in the Exam

- Start your Python IDLE

- Select File > New File

- Go to your exam PDF, select the code, copy it

- Go to your new Python file, paste the code into it
  - Make sure only the code is included,
    not other things
  - Make sure all of the code is included,
    don't miss any of it

- **The indentation is probably gone** - you need to fix it

- Then run the code i.e. *Run > Run Module*, or press F5
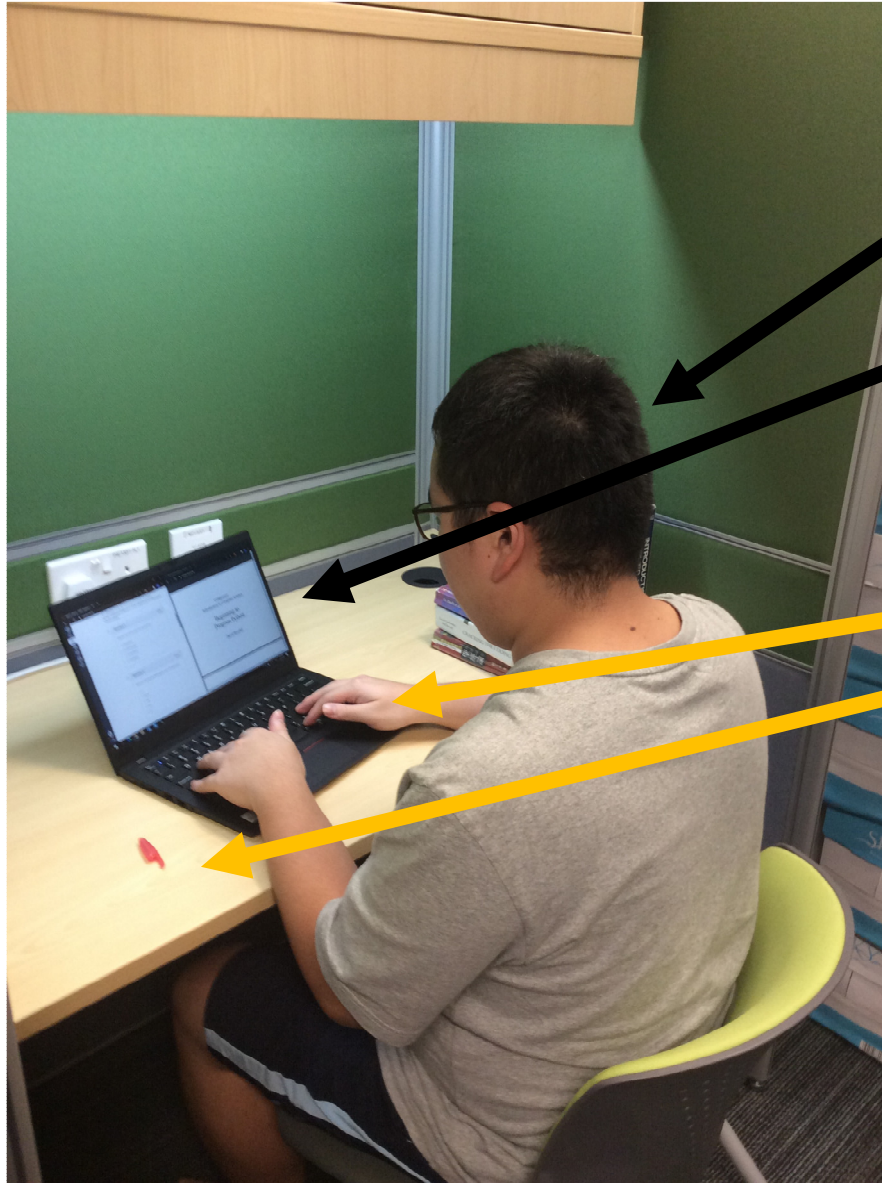
Getting Things Ready for Zoom

- Use the name shown on your HKUST card

- Do not use the Virtual Background feature

- Turn off your microphone

- Make sure you can hear the chat room sound
  - the invigilator will say things such as "the exam has started", "there are *X* minutes left", and so on

Use Zoom Video

- While you take the exam you will be observed via Zoom

- That means you need to use an external device with a camera, e.g. your mobile phone or a tablet, to show yourself while you are taking the quiz

- You must remain visible in Zoom during the exam e.g. you cannot leave

- Don't touch the device you are using for Zoom e.g. your phone/tablet during the exam

- These videos will be recorded and checked carefully

What Your Camera Must Show

The camera must show:
- your face (at least partially)
- the screen of the device where you are taking the Canvas quiz
- your hands
- your desk area

You need to install Zoom on the device which you will use to show your Zoom camera image

Another Example

The camera must show:
- your face (at least partially)
- the screen of the device where you are taking the Canvas quiz
- your hands
- your desk area

You need to install Zoom on the device which you will use to show your Zoom camera image

Programs You Can Use

- You can only use these things during the exam:
  a browser such as Chrome, IDLE Python and Zoom
  - If you drag a PDF file e.g. notes into a browser such as Chrome it can be displayed in a tab
  - ITSC says there is a problem if you use the Safari browser with the Canvas web site, so don't use that browser

- Close all other programs

Use Python instead of a Calculator

- You cannot use a physical calculator

- You cannot use a calculator program on your computer

- **Use Python** for any calculations
  – for example, use the Python shell

Be Good

- Obviously no communication with others is allowed during the exam

- Invigilators will closely monitor the exam

- If there's anything inappropriate, action will be taken later

- Remember the very strong penalties for any cheating!

After the Final Exam

- We will mark your final exam and release the marks a couple of days after the exam

- We will also send you another PDF file which contains your exam questions together with the correct answers to your questions

Preparing for the Exam

- The exam is not really a test of memorisation, it is more of a test of understanding how to program

- One thing you can do is:

  - Go through the notes and make sure you understand them

  - Go through the labs and make sure you understand them (we won't release solutions)

  - Go through the interactive examples and make sure you understand them

  - Download the examples and run them, try amending them and check you understand them

Useful Things To be Released Soon

- A clickable index for all course material

- More interactive practice pages

- Previous final exams:
  - Several previous final exams will be released as interactive web pages so you can easily test yourself
  - We will also release some other exams, PDF format
  - There will be video discussion of every question

What the Final is Worth

- Remember that we will assess you at the end of semester using two different methods

- Here are the two assessments we will use for every student
  - Midterm 24%, lab projects 36%, final exam 40%
  - Midterm 0%, lab projects 42%, final exam 58%

- We will automatically use the best assessment for you at the end of semester

- If you don't do the final, you simply get an F grade