

- Locating and open python notebooks on colab
- Completing your work
- Downloading your work from colab and uploading to Moodle

Course Locations



Outline

1. Locating and Opening Notebooks

- Notebooks are listed on the Moodle main page and within topics on the Githib website.
- Clicking on Colab opens notebook in Colab.
- Need a separate Google account to use colab.
- Need to login and click on authorship warning before editing.

2. Edit and Working with Notebooks

- A notebook is a list of cells which are either:
 - **text** contain markdown text, where markdown is a simple but effective technique to typeset content **code** which contain python code to run.
- The Colab interface has many features to help with editing notebooks, so it is worth spending some time just playing with it.

3. Downloading and Submitting Notebooks to Moodle

- Colab automatically saves your notebook as you work, but you need to submit it to Moodle for grading.
- Download python ipynb using the Colab menu option
- Notebook should be saved to your Download folder.
- Open Moodle and upload file.

3

Locating and Opening Notebooks

Step 1 — Locating and Opening Notebooks



Locating and Opening Notebooks

Step 2 — Login Before You Start Editing ...



[†]Switching between Google accounts is a pain. To avoid this I use a separate browser for Colab work. The Opera browser is a good option.

Locating and Opening Notebooks

Step 3 — Enter Details and Run Practical Setup...

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	your_student_n	umber: "666				
	vour name: "kr	murphy				
	Jour_nume. M					
	Show Code					
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	3 import urllib.	request				
	4 content = urlis 5 exec(open(contents)	<pre>ib.request.urlretrieve ("http://e ent[0]).read())</pre>	liscretemathematics-202122.	github	.10/11ve/	resou
	6 setup_practical	l(locals())				
	Loading Python practical setup to	tools version 2021.1. See DiscreteMathematic	ics-202122.github.io/live			
				$\land \downarrow$	c) 🧨 🖵	Î.
- Intr	roduction					
- Intr		will Introduce the Python programming	language and Google's colabing	stebook	e for inter	active

- In the first cell, enter your student number and name and exceute the cell.
- Execute the second cell to complete the setup. You should see message: "Python practical setup tools ...", The version number is currently 2021.1, but this will change.

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Edit and Working with Notebooks

Edit and Working with Notebooks



Review / Feedback



At the end of each notebook, we have a short questionnaire which we would like you to complete so that we can have a better idea as to how you are fairing. Everything entered here will be taken in the strictest confidence and we will do our best to address any issues. We are interested in:

- Difficulty of material are we assuming too much prior knowledge? do we need to give me examples? etc.
- The length of time you spend on the Discrete Mathematics activities — both spending too little and spending too much time on an activity is common.
- Is there anything that we should start/stop doing?

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Download Notebook as a ipynb

File Edit View Insert Runtime Tools Help View on GitHub Apply. The # character is used comment. New notebook %/Ctrl+0 the start The # character is used comment. Rename Save a copy in Drive Save a copy in GitHub Save a copy in GitHub Bownload ipynb 	GP Share	 From the Colab menu select File→Download→Download ipynb. This should store a copy of your notebook in your Downloads folder. This file is a text encoded file with extension ipynb You need to upload this file to Moodle for grading.
Question 3 (Integer division and reminder)	• • • < > Downloads	
Evaluate the expression: 13 mod 5.	DM_P00IntroductionPython_s	and_Colab.jpynb 11 KB ipynb
 The modules operator returns the reminder on division, it is written as % in python, and operatiors (such as +, - etc). For example 11 % 4 returns 3 since 4 divides into 11 % The integer division in python is written using // as in 13//5 returns 2. [] 1 # Question 3 2 	d is used sin two times w	

Downloading and Submitting Notebooks to Moodle

Uploading and Submission to Moodle

