Middle Tennessee State University

Department of Computer Science

CSCI-3080 Discrete Structure

# OLA4: Matrices

Instructor: Dr. Xin Yang

**Due date: Mar 21st, 2022 (23:59 PM)**

March 14, 2022

## 1. Download and Install Anaconda

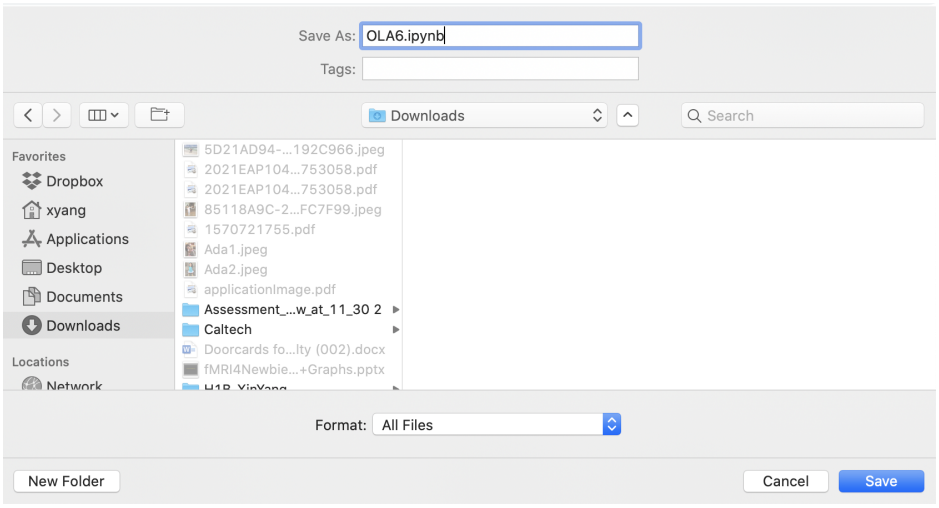
**Windows users:** `https://docs.anaconda.com/anaconda/install/windows/`
**Mac users:** `https://docs.anaconda.com/anaconda/install/mac-os/`
**Linux users:** `https://docs.anaconda.com/anaconda/install/linux/`


Figure 1: Anaconda: Data Science Platform

## 2. Download the Starter Jupyter Notebook

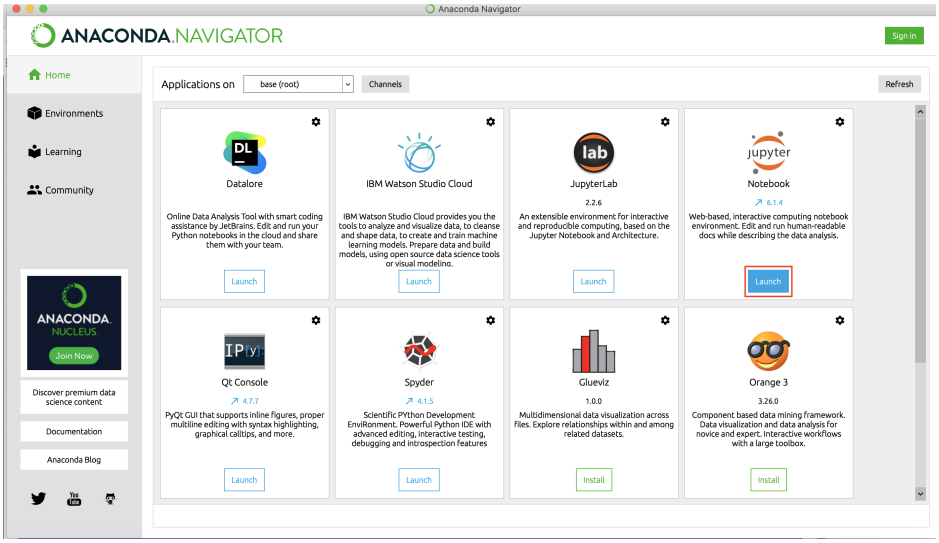
Please download the starter Jupyter Notebook (OLA4.ipynb) from my course calendar:
`https://www.cs.mtsu.edu/~xyang/3080/OLA/OLA4.ipynb`

- **Right click** the page.
- Click: "**Save As**"
- Select Format: **All Files**
- **Remove** the extension **.txt**.



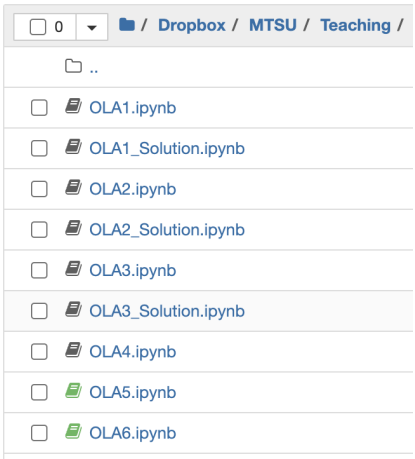

## 3. Launch Jupyter Notebook

(1) Open Anaconda.
(2) Launch Jupyter Notebook through Anaconda.

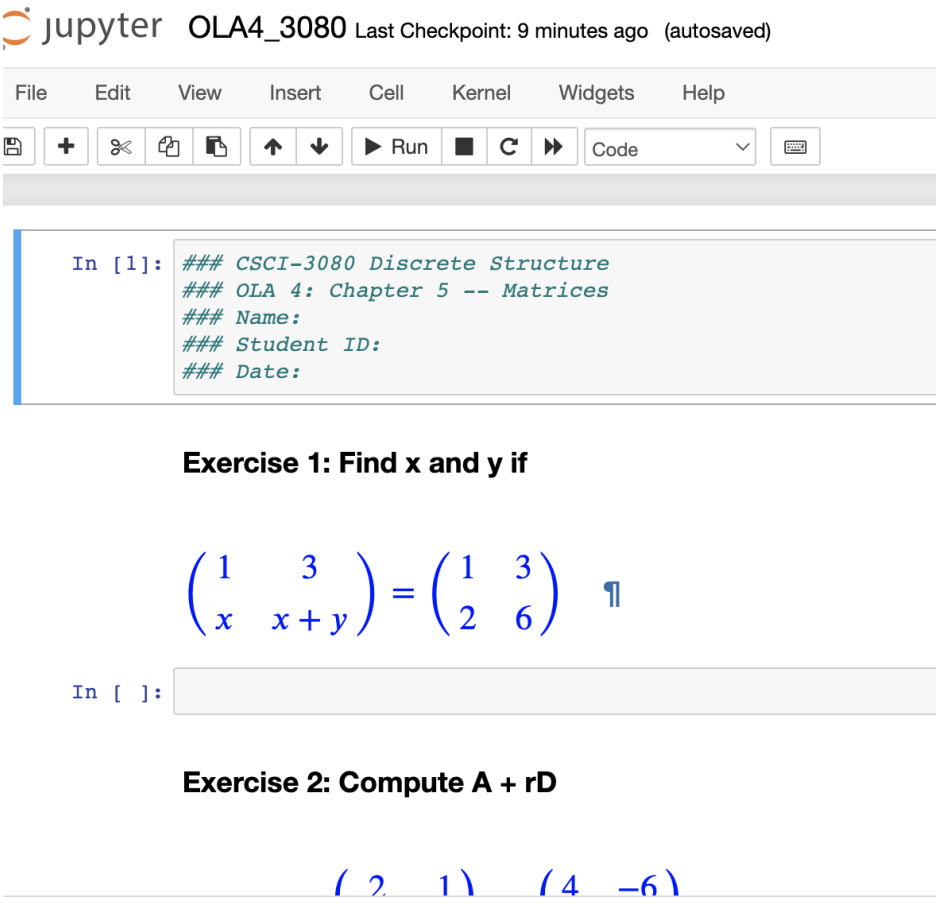



# 4. Open Jupyter Notebook OLA4

(1) Locate OLA4.ipynb in your Download Folder.



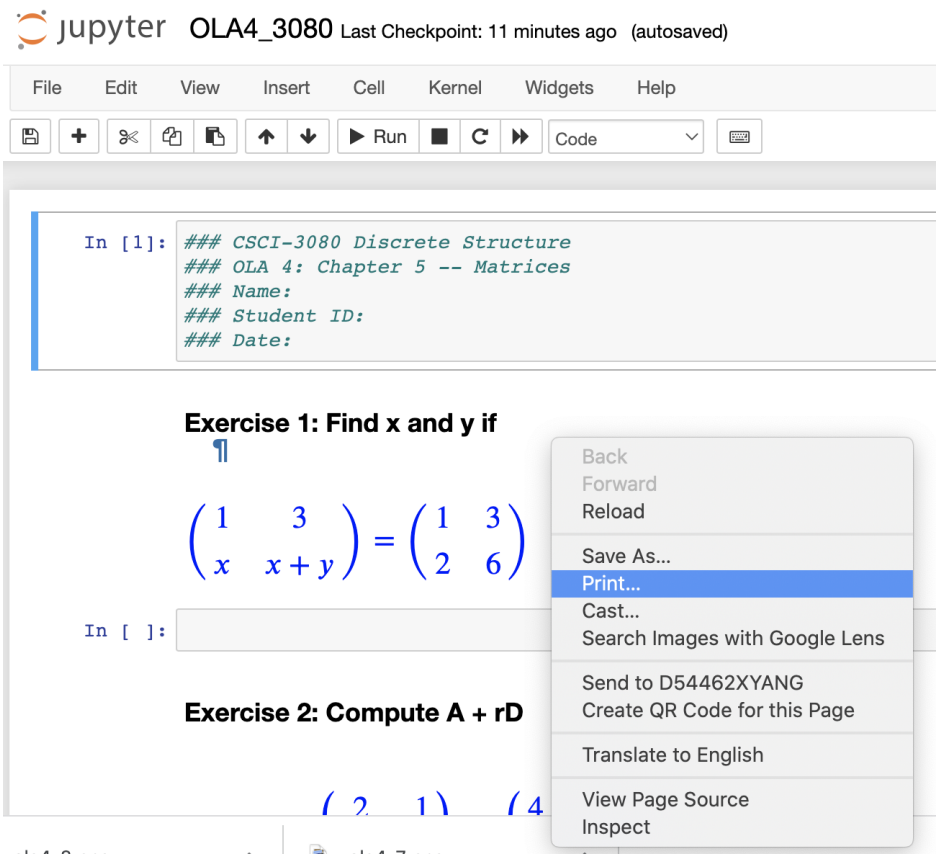

(2) You should see the following page after you click OLA4.ipynb :

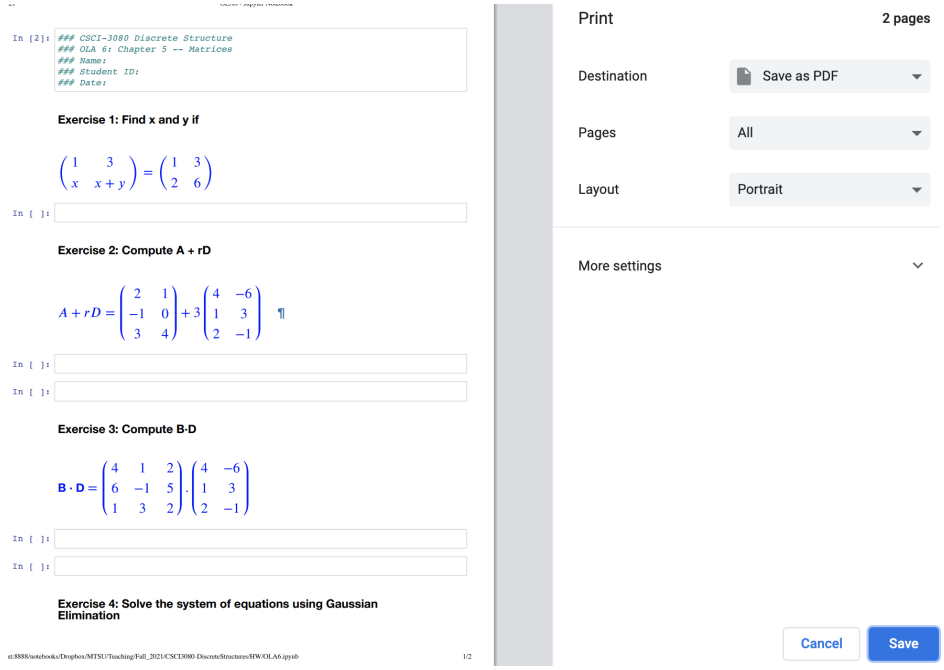



(3) Please fill in your Name, ID, and Date.
(4) Please finish all 5 exercises in Jupyter Notebook.

## 4. Save OLA4 as a PDF

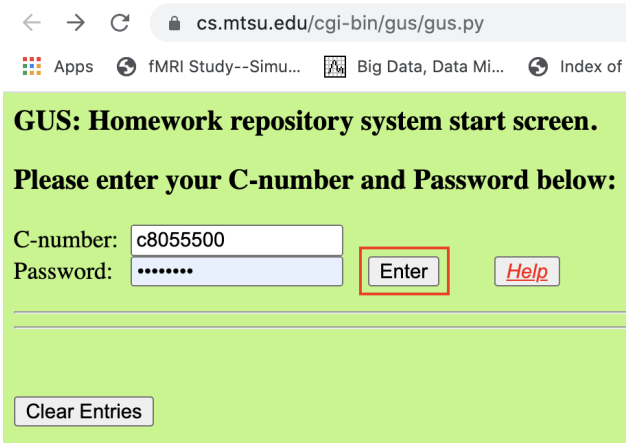
(1) Please save your OLA4 as a PDF after you finish all the exercises. Please **right click** the Jupyter Notebook, then click **Print**, and **save as PDF**.


jupyter OLA4_3080 Last Checkpoint: 11 minutes ago (autosaved)
File Edit View Insert Cell Kernel Widgets Help
Run
Code
In [1]:
### CSCI-3080 Discrete Structure
### OLA 4: Chapter 5 -- Matrices
### Name:
### Student ID:
### Date:
Exercise 1: Find x and y if
¶
$\begin{pmatrix} 1 & 3 \\ x & x+y \end{pmatrix} = \begin{pmatrix} 1 & 3 \\ 2 & 6 \end{pmatrix}$
In [ ]:
Exercise 2: Compute A + rD
Back
Forward
Reload
Save As...
Print...
Cast...
Search Images with Google Lens
Send to D54462XYANG
Create QR Code for this Page
Translate to English
View Page Source
Inspect




# 5. Submission

1. log in the gus sytem using your **cNumber** and **Password**:
`https://www.cs.mtsu.edu/cgi-bin/gus/gus.py`

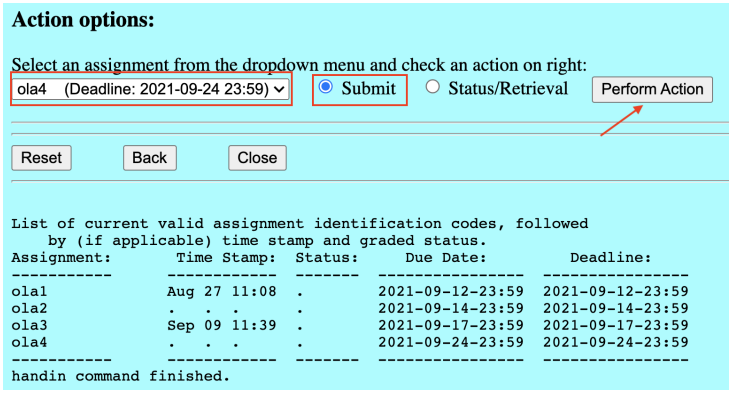



2.

(a) Select **ola4** from the drop-down menu.

(b) Click **Submit**

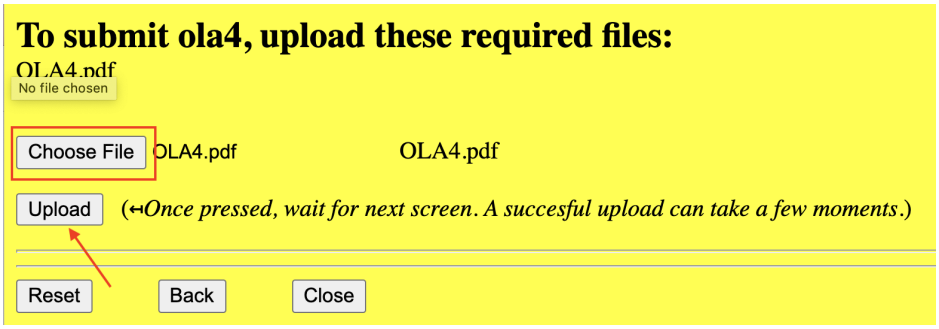
(c) Click **Perform Action**




3.

(a) click **Choose File** to attach your OLA4.pdf

(b) click **Upload**.




4. Congratulations! You are done with OLA4!