MIDDLE TENNESSEE STATE UNIVERSITY

DEPARTMENT OF COMPUTER SCIENCE CSCI-3080 DISCRETE STRUCTURE

OLA7: Graphs and Trees

Instructor: Dr. Xin Yang

Due date: Nov 1st, 2021 (23:59 PM)

October 21, 2021



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 (OLA7.ipynb) from my course calendar:

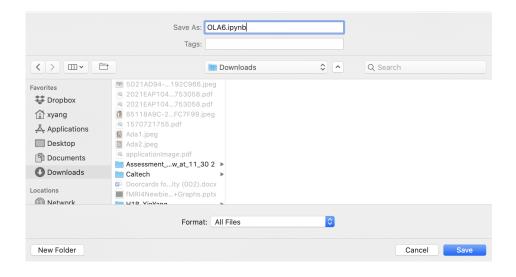
https://www.cs.mtsu.edu/~xyang/3080/OLA/OLA7.ipynb

• Right click the page.

• Click: "Save As"

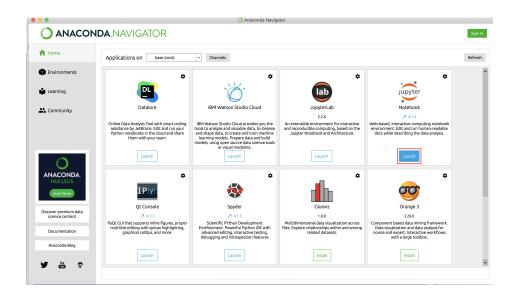
• Select Format: All Files

• Remove the extension .txt.



3. Launch Jupyter Notebook

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

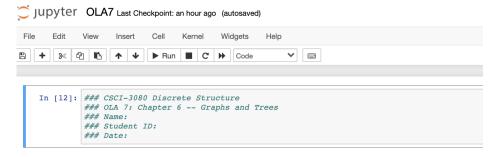


4. Open Jupyter Notebook OLA6

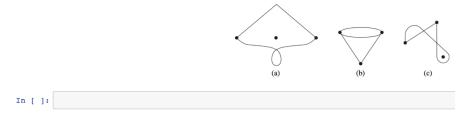
(1) Locate OLA7.ipynb in your Download Folder.



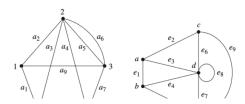
(2) You should see the following page after you click OLA7.ipynb :



1. Which of the following graphs is not isomorphic to the others, and why?



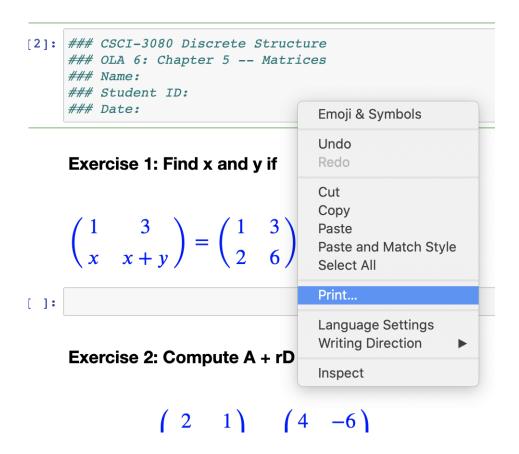
2. Decide if the two graphs are isomorphic. If so, give the function or functions th not, explain why.

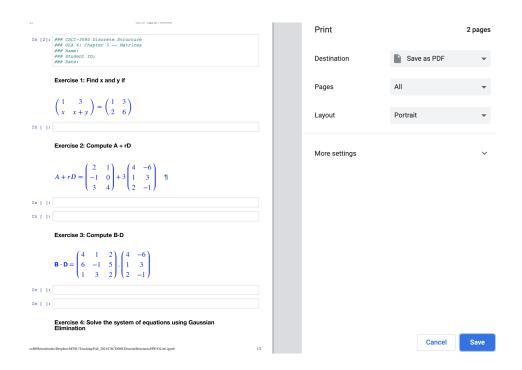


- (3) Please fill in your Name, ID, and Date.
- (4) Please finish all 8 exercises in Jupyter Notebook.

4. Save OLA7 as a PDF

(1) Please save your OLA7 as a PDF after you finish all the exercises. Please **right click** the Jupyter Notebook, then click **Print**, and **save as PDF**.

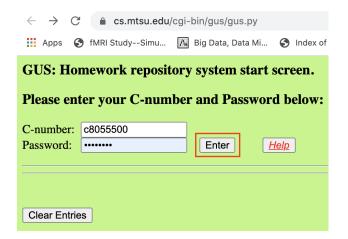




5. Submission

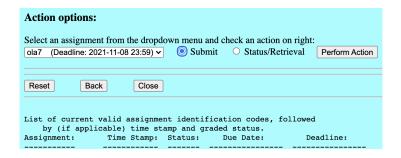
1. log in the gus sytem using your **cNumber** and **Password**:

https://www.cs.mtsu.edu/cgi-bin/gus/gus.py



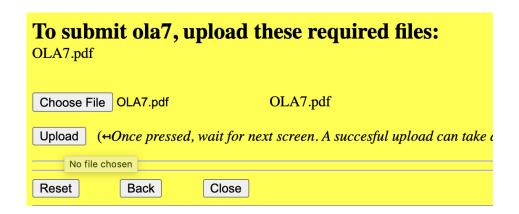
2.

- (a) Select **ola7** from the drop-down menu.
- (b) Click **Submit**
- (c) Click **Perform Action**



3.

- (a) click **Choose File** to attach your OLA7.pdf
- (b) click **Upload**.



4. Congratulations! You are done with OLA7!

