

**Homework 1**  
**Due Tuesday Sept 7 9:30am**  
**5 points**

**NSC 3270 / 6270**  
**Fall 2022**

This is a checkoff assignment worth 5 points (if you do it, you get 5 points; if you do part of it, you get 3 points; if you don't do it, you get 0 points).

Learning goal: To prepare you for the work in this course.

**1. Complete the **Programming Experience Survey** linked on Brightspace by **Sun Aug 28**.** I am using this to get a sense of the programming experience of the students in the course.

**2. Access, create an account, and make a post on Piazza:**

<https://piazza.com/vanderbilt/fall2022/nsc32706270>

When you post, Piazza should prompt you to associate the post with a folder. Link your post to the "welcome" folder. Your post should say why you are taking this course and what you hope to learn.

**3. Access Google Colab (<https://colab.research.google.com>), upload and run autoencoder.ipynb (posted on Brightspace), take a full screen shot of your computer showing that it completed (your screen shot should include the image of digits produced by the program).**

**4. Install (if necessary) and set up Python on your computer with the packages outlined on the class slides (see class slides for details).**

**5. Confirm that you can run autoencoder.py in VS Code (or another IDE). Take a full screen shot of your computer showing that it completed (your screen shot should include the digits, as above).**

**6. Confirm that you can run autoencoder.ipynb on a Jupyter notebook running on your computer. Take a full screen shot of your computer screen showing that it completed (your screen shot should include the digits, as above).**

**7. ZIP together all three of the screen shots and submit that **single ZIP file** on Brightspace.** All assignments will be submitted as a single file like this.

*Unexcused late assignments will be penalized 10% for every 24 hours late, starting from the time class ends, for a maximum of two days, after which they will earn a 0.*