**LARSON—MATH 255–HOMEWORK WORKSHEET 04**
**Programming for Computations (book).**

1. Log in to CoCalc.

   (a) Start the Chrome browser.

   (b) Go to `https://cocalc.com`

   (c) Login (**your VCU email address** is probably your username).

   (d) You should see an existing Project for our class. Click on that.

   (e) Click "New", then "Jupyter Notebook", then call it **h04**.

   (f) **Annotate your work carefully and completely. The more explanation the better!**.

   The following readings and related work come from Linge & Langtangen's Programming for Computations (2nd ed). The VCU Library has digital access to this book and there is also a pdf in your CoCalc project Handouts folder.

   **When you are asked what *kernel* you want to use, choose the *Python 3 kernel*—we'll only use Python for code from the book, and never the extra Sage functions**.

2. **Read Sections 3.1 through 3.3**.

   As you read, **run all the code** that you see on your worksheet. Annotate appropriately. In particular I should be able to determine what section/subsection of the book your code snippets came from. Make sure that the code runs—or get help.

3. If you have questions, put your questions in the notes and double-box them so I can easily find them.

   **If you cut-and-pasted the code and it doesn't execute, you must double-check that the formatting is still the same and that special characters, importantly quotation marks, aren't red.**

   **Getting your homework recorded**

   When you are done writing up your nicely annotated code examples...

   (a) Click the Printer-icon button and make a pdf of this worksheet. (If Cocalc hangs, click the *File* button, then Save-and-Download as pdf (via "JupyterLab notebook" is slightly more attractive than than the "Classic" option).

   (b) Send me an email with an informative header like "Math 255—h04 worksheet attached" (so that it will be properly recorded).

   (c) Remember to attach your homework worksheet pdf!