

M2.A5: Programming Assignment on Properties of Special Matrices With NumPy

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Due Jun 6 by 10:59pm **Points** 100 **Submitting** a file upload **File Types** pdf
Available after May 30 at 11pm

Overview

This assignment is intended to help you practice with some basic routines in NumPy and prepare you to manipulate image and tabular data.

Activities

- Create an iPython notebook to work on the following problems. [How To link: <https://www.dataquest.io/blog/jupyter-notebook-tutorial/> [_](https://www.dataquest.io/blog/jupyter-notebook-tutorial/)(<https://www.dataquest.io/blog/jupyter-notebook-tutorial/>)]
- Clearly put the problem numbers in appropriate headers and subheaders on the notebook.
- Do not display information that is not being sought.
- Images or data files, if any, should be kept in folders such as `./images/im_name.jpg` or `./data/data_file.csv`.
- [Problems](#) ⬇ (https://sit.instructure.com/courses/48974/files/8039640/download?download_frd=1)
- [Download to Jupyter](#) ⬇ (https://sit.instructure.com/courses/48974/files/8039618/download?download_frd=1)

In your submission, you must:

- Provide the console output of the routines that you have implemented in the text input box in the format as specified in the problems.
- Provide a pdf file of the iPython notebook of your code. Check the following video for a convenient way to convert an iPython notebook to a pdf document:

convert ipython notebook to pdf (Best and Easy way)



Programming Assignment Grading Rubric

Criteria	Ratings				Pts
Completeness and Accuracy Programming output is complete and accurate.	100 pts Exceeds Expectations Work is complete and accurate.	80 pts Somewhat Meets Expectations Output is not as expected but most of the necessary steps were taken in programming; minor errors.	60 pts Below Expectations Work is only partially complete and/or contains many errors.	0 pts No Points Assignment not submitted.	100 pts
					Total Points: 100