

| DATA ANALYTICS REFERENCE DOCUMENT | |
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52465 Programmining Assignment One Remit

Programming for Data Analysis: Assignment 2018

Due: last commit on or before November 11th

This document contains the instructions for Assignment 2018 for Programming for Data Analysis. Please be advised that all students are bound by the Quality Assurance Framework [4] at GMIT which includes the Code of Student Conduct and the Policy on Plagiarism. The onus is on the student to ensure they do not, even inadvertently, break the rules. A clean and comprehensive git history (see below) is the best way to demonstrate to the examiner that your submission is your own work. It is, however, expected that you draw on works that are not your own to build your submission and you should systematically reference those works to enhance your submission.

Problem statement The following assignment concerns the numpy.random package in Python [2]. You are required to create a Jupyter [5] notebook explaining the use of the package, including detailed explanations of at least five of the distributions provided for in the package. There are four distinct tasks to be carried out in your Jupyter notebook.

1. Explain the **overall purpose of the package**.
2. Explain the use of the **“Simple random data”** and **“Permutations”** functions.
3. Explain the use and purpose of at least **five “Distributions”** functions.
4. Explain the **use of seeds** in generating pseudorandom numbers.

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