

Introduction to Numerical Analysis: Week 1

- Theory Part
 - Difference Equations (Chapter 1.3 of *Kincaid-Cheney*)
- Programming Part
 - Getting started with Python: Installing *PyCharm Edu*
 - Introducing basic concepts: Variables, Strings, Loops, and Conditions
 - Writing simple programs
 - Plotting simple 2D curves
 - Reading: Chapters 1–3 and Appendix A of *Learning Python for Numerical Analysis*
- Exercises
 - Chapter 1.3 of *Kincaid-Cheney*: Problems 13, 27, and Computer Problems 1, 3–5.