**🐍 8-Hour Python Bootcamp Schedule (Draft)**

**Hour 1: Setup and Orientation**

* What is Python? Why it matters in cyberdefense
* Installing Python, using REPL vs. scripts
* IDEs and editors (VS Code, IDLE, etc.)
* Running a script, basic print statements
* First mini-challenge: “Hello, Hacker!”

**Hour 2: Variables and Data Types**

* Strings, integers, floats, booleans
* Type conversion and type() inspection
* Naming conventions and readability
* Practice: create a simple calculator or password strength checker

**Hour 3: Control Flow**

* if, elif, else
* Comparison and logical operators
* Practice: write a login simulator or access control logic

**Hour 4: Loops and Iteration**

* for and while loops
* Loop control: break, continue
* Practice: brute-force password cracker simulation

**Hour 5: Functions and Reusability**

* Defining and calling functions
* Parameters and return values
* Scope basics
* Practice: modularize previous challenges

**Hour 6: Collections**

* Lists, dictionaries, sets
* Indexing, slicing, iteration
* Practice: build a simple log parser or alert system

**Hour 7: Unique Python Features**

* List comprehensions
* Virtual environments (venv, pip)
* Imports and modules
* Practice: install and use requests or os for basic system interaction

**Hour 8: Wrap-Up and Mini Project**

* Review key concepts
* Mini-project: write a script that simulates a basic intrusion detection log parser or alert generator
* Optional: introduce basic file I/O or subprocess if time allows