

Experiment 01 - Setup Notes: Python Installation and Modes

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February 14, 2026

Objective

Install Python and understand the difference between **interactive mode** (REPL) and **scripting mode** (.py files).

Installation (Windows - Quick Steps)

1. Download Python 3 from the official website (python.org).
2. During installation, check **Add Python to PATH**.
3. Finish installation.
4. Verify in Command Prompt / PowerShell:

```
python --version
python -c "print('Hello')"
```

Interactive Mode vs Scripting Mode

Interactive mode (REPL):

- Run one statement at a time and see immediate output.
- Useful for quick testing and learning.

Scripting mode:

- Write code in a .py file and run it.
- Useful for assignments, experiments, and reusable programs.

IDLE (Optional)

Python ships with IDLE, which can run both:

- Shell (interactive mode)
- Editor + Run Module (scripting mode)