

# Experiment 01 - Setup Notes: Python Installation and Modes

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## 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](https://www.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)