



Python Bootcamp

Week 1






Course Overview

1. No prior programming knowledge required - open to everyone
2. Introduce new people to programming and Computer Science
3. Python language features - basics to advance
 - a. Input and Output
 - b. Data Types
 - c. Variables and types
 - d. Loops
 - e. Conditionals
 - f. Object oriented programming and more!
4. Step by step instructions
5. Content reinforcement exercises and projects
6. Certificate for course completion





Week 1 Objectives

1. Setup
 - a. Why program and why Python ?
 - b. Setup
 - i. Online environments
 - ii. Editors
 - iii. Python REPL Shell demonstration
 - c. GitHub
 2. Reading programs
 3. Basics of Python: Input and Output
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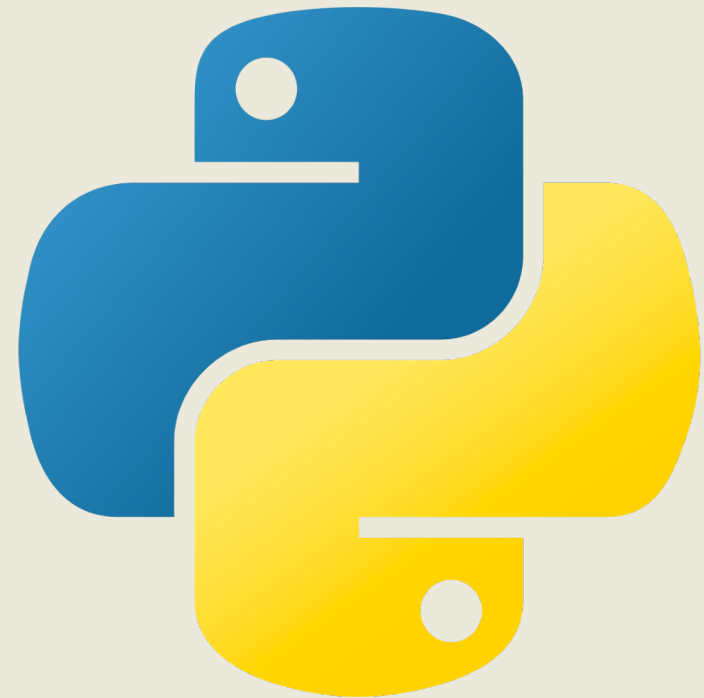
Why Program?

1. Learn a cool tool to build things
2. Experiment with ideas
3. Wide applications across industries and sectors
4. Technological innovations
5. High demand skill
6. It's fun!



Why Python?

1. Easy, versatile and powerful!
2. Super easy to get started
3. Large community and support
4. Wide adoption across industries
5. Loved by programmers and us :)
6. Solid language to learn fundamentals



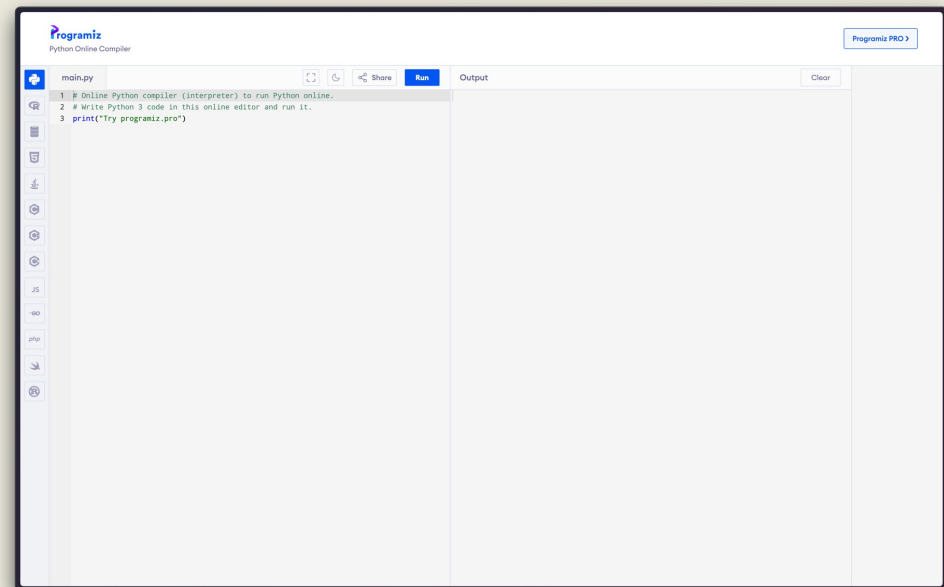
IDE: Integrated Development Environment

- An application to write and compile your program
- Many choices!
- Our recommendation: Visual Studio code
- Second recommendation: Pycharm
- Other choices:
 - Notepad ++
 - Emacs
 - Vim



Code online

1. Online Python interpreters - no setup needed
2. <https://www.programiz.com/python-programming/online-compiler/>
3. No option to save code files
4. Missing features and libraries



Installing Python

Windows

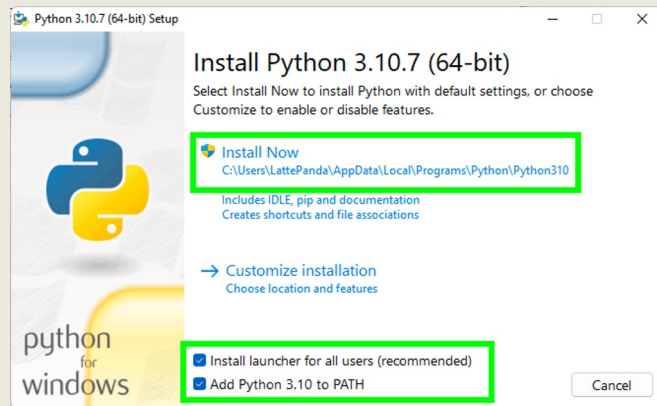


- <https://www.python.org/downloads/>
- Install the latest version on the site(3.12)
- Open the command prompt and type “python --version”

macOS



- <https://www.python.org/downloads/>
- Install the latest version on the site (3.12)
- After installation open terminal and type “python3 --version”



Installing Visual Studio code

- <https://code.visualstudio.com/download>
- Install Python extension
- Create a new file called helloworld.py
- Save the file in your desired directory
- Press the play button on the top right



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End