

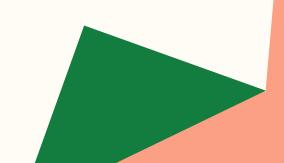
Introduction to Python

Day 1 - Python Basics

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Agenda

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1	What i	is Pyt	hon?

- Why learn Python?
- 3 Installing Python and setting up the environment
- 4 Writing your first Python program

5 Basic syntax and rules

6 Hands-on practice

What is Python?

- Definition: Python is a high-level, easy-to-learn programming language.
- Created by: Guido van Rossum in 1991.
- Uses:
 - Web development
 - Data analysis
 - Artificial Intelligence
 - Automation
 - Game development
- Why Python?
 - Simple and readable syntax
 - Large community support
 - Cross-platform (works on Windows, macOS, Linux)



Why Learn Python?

- Beginner-friendly: Easy to learn and understand.
- Versatile: Used in many fields (web, data, AI, etc.).
- **High demand:** Python developers are in high demand in the job market.
- Fun: You can build games, automate tasks, and more!



Installing Python

- Step 1: Download Python from python.org.
- Step 2: Run the installer and check "Add Python to PATH."
- **Step 3:** Verify installation:
 - Open Command Prompt (Windows) or Terminal (macOS/Linux).
 - Type python --version and press Enter.
 - You should see the installed Python version (e.g., Python 3.13.2).



Setting Up the Environment

- Python IDLE: Comes with Python installation.
- VS Code: A popular code editor.
 - Install VS Code from code.visualstudio.com.
 - Install the Python extension in VS Code.
- Other options: PyCharm, Jupyter Notebook, etc.



Writing Your First Python Program

- Open Python IDLE or VS Code.
- Type the following code: print("Hello, World!")
- Save the file with a .py extension (e.g., hello.py).
- Run the program:
 - In IDLE: Press F5 or go to Run > Run Module.
 - In VS Code: Right-click and select "Run Python File."
 - Terminal: Run "Python filename.py"



Basic Syntax and Rules

• **Indentation:** Python uses indentation (spaces or tabs) to define code blocks.

```
if 5 > 2:
    print("Five is greater than
two!")
```

Comments: Use # for single-line comments.

```
# This is a comment
print("Hello, World!")
Triple Quotes for multi-line comment
```

 Case Sensitivity: Python is case-sensitive (print is not the same as Print).



Hands-On Practice

- Task 1: Write a program to print your name.

 print("My name is [Your Name]")
- Task 2: Write a program to print a message in Pashto.

```
("ستاسو نوم څه دی؟")print
```

• Task 3: Write a program to print multiple lines.

```
print("Hello!")
print("Welcome to Python.")
```



Recap

- What is Python?
- Why learn Python?
- How to install Python and set up the environment.
- Writing your first Python program.
- Basic syntax and rules.



Homework

- Install Python on your computer if you haven't already.
- Install VS Code
- Write a Python program to print your favorite quote.
- Explore Python IDLE or VS Code and get familiar with the interface.





- Do you have any questions?
- Share your thoughts.



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Closing

Next class: Variables and Data Types.