


# Python Lecture 1: Introduction to Python (For Absolute Beginners)

 **Goal:** Understand what Python is, why we use it, and how to get started with it.

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## What is Python?

Let's keep it **super simple**:

 **Python is a language that computers understand.**

We use it to **give instructions** to a computer — like telling it to add two numbers, show a message, or even run a full website or game!

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## Why is it called "Python"?

Python is not named after the snake!





It's actually named after a comedy show called “**Monty Python's Flying Circus**”.

The creator of Python, **Guido van Rossum**, liked that show and wanted a short, fun name.

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## Why Learn Python?

Here are **5 simple reasons** why Python is amazing:

1.  **Easy to Learn** — Feels like English.
2.  **Powerful** — Big companies like Google, YouTube, and Netflix use it.
3.  **Popular** — It's one of the most used languages in the world.
4.  **Smart** — Used in AI, Data Science, Machine Learning, etc.

5.  **Jobs** — Python developers are in high demand.
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## **Where is Python Used?**

- ✓ Websites (YouTube, Instagram)
  - ✓ Apps & Games
  - ✓ Data Analysis
  - ✓ Artificial Intelligence (AI)
  - ✓ Automation (telling computers to do tasks automatically)
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## **How to Install Python (Step-by-step)**

Don't worry, it's super simple. Let's install it and run your first program.

### **Step 1: Download Python**

- Go to <https://python.org>
- Click on "**Download Python**" (choose the latest version)

### **Step 2: Install It**

- Open the downloaded file
  - **IMPORTANT:** Check the box that says "**Add Python to PATH**"
  - Then click "**Install Now**"
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## **Let's Write Our First Python Code!**

We'll write a code that says "**Hello, World!**" — like saying hello to programming!

### ➤ **Step 1: Open IDLE**

After installing Python, open a tool called **IDLE** (comes with Python).

➤ **Step 2: Type this code:**

```
python
CopyEdit
print("Hello, World!")
```

➤ **Step 3: Press Enter** ➡

You'll see:

```
CopyEdit
Hello, World!
```

🎉 Congratulations! You just wrote your first Python program.

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## Let's Understand This Code

```
python
CopyEdit
print("Hello, World!")
```

- `print()` is a **command** that tells the computer to show something on the screen.
- The **text** inside the quotes " " is what will be shown.

So, this line tells the computer:

Show the message "Hello, World!"

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## Recap – What Did You Learn Today?

- What is Python?
- Why is it useful?

- How to install it
  - Your first program: `print("Hello, World!")`
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## Homework for You

Try writing these in Python:

1. `print("My name is Azhar")`
2. `print("I love Python!")`
3. `print("Today is a great day")`


Just change the words inside the quotes. Practice!

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## Final Words

Python is like learning how to talk to computers. Don't worry if it feels new. Step by step, you'll become a **pro**.

Next lecture, we'll learn:

 How to do **math in Python** (like addition, subtraction) and play with **numbers and text!**