CLASS 2ND NOTES:

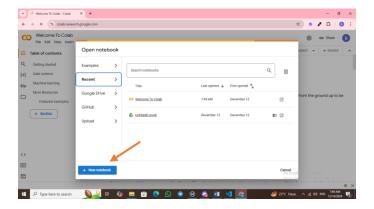
GOOGLE COLAB:

Step 1: Open Google Colab:

- 1. Open your browser and go to Google Colab.
- 2. Log in with your **Google account** (if not already logged in).

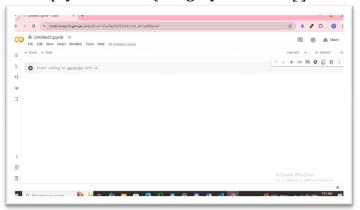
Step 2: Create a New Notebook:

- 1. Click on "New Notebook" (you'll see a blank page with the title *Untitled0.ipynb*).
- 2. This is your coding workspace, called a **notebook**.

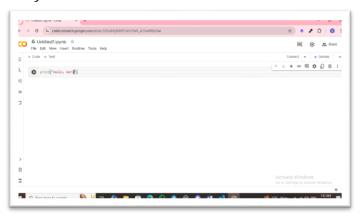


Step 3: Write the Code:

1. Click on the first empty **code cell** (the gray box with []: on the left).

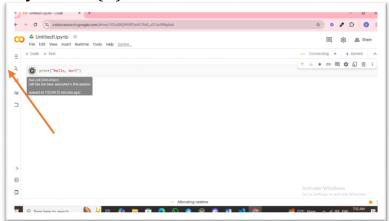


2. Type this Python code: print("Hello, World!")

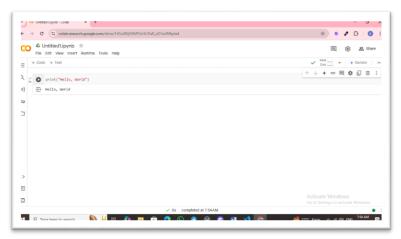


Step 4: Run the Code:

1. Click the **Play button** (▶) on the left side of the code cell.



2. Google Colab will run your code, and you'll see the output below: **Hello, World**



VISUAL CODE STUDIO:

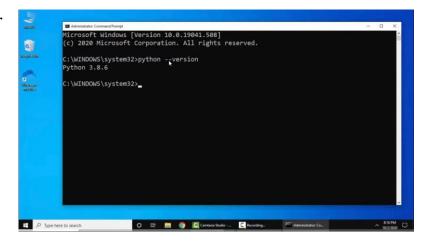
Step 1: Install Python:

- 1. Go to python.org/downloads
- 2. Click **Download Python**.
- 3. Open the file and:
- Tick "Add Python to PATH".
- Click Install Now.
- 4. Done! Python is installed.

Let's check python successfully installed or not.

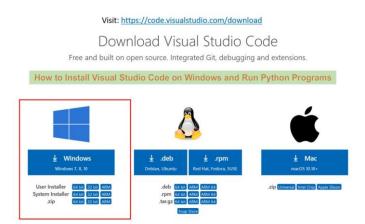
Open cmd from start menu.

Type python -- version then enter

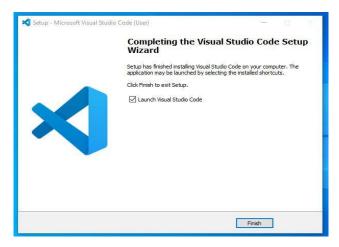


Step 2: Install VS Code:

- 1. Go to <u>code.visualstudio.com</u>.
- 2. Click **Download**.



- 3. Open the file and install it (use default options).
- 4. Done! VS Code is installed.

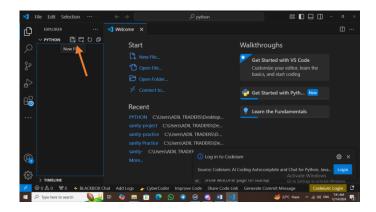


Step 3: Open VS Code:

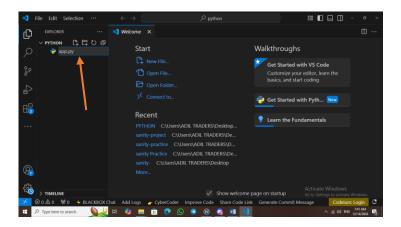
1. Open **Visual Studio Code** from your desktop or Start menu.

Step 4: Write the Code

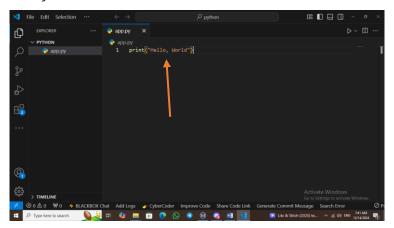
1. Click **File > New File** in VS Code.



2. Click **File >** name it **app.py**

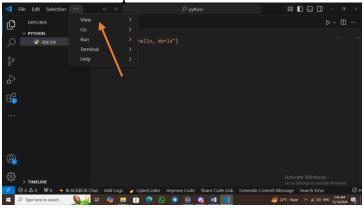


3. Type this code in the file: print("Hello, World!")

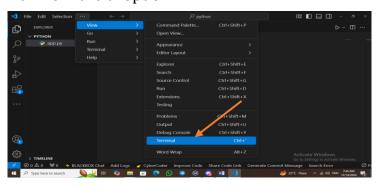


Step 5: Run the Code

- 1. Open terminal in **Visual Studio code**
- 2. Click on the **View** menu at the top of the screen.



3. Select **Terminal** from the dropdown.

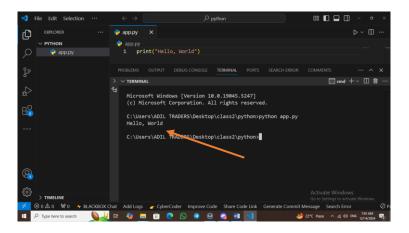


4. In the terminal,

type: python app.py (your file name)

1. Press Enter.

You'll see: Hello, World!



Shortcut to Open the Terminal

Press **Ctrl** + `(the backtick key is just below the Esc key)

Python variable:

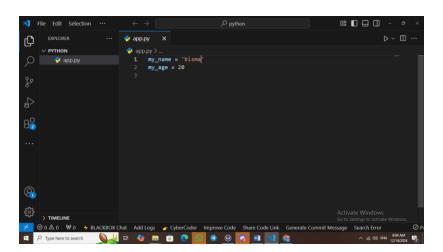
What is a variable?

A variable is like a container that stores information for later use. For example, you can store your name, a number, or any data in it.

Q: How to create a variable?

- Pick a name for your variable (e.g., age, name, or score).
- Use the = sign to give it a value.

Example:



Rules for variable names

- Variable names **must start with a letter** (e.g., x, name) or an underscore _.
- No spaces (use snake_case like my_variable).
- Don't use numbers at the beginning (2name is wrong, but name2 is fine)