PYTHON IS FOR EVERYONE

Tutorial 1:

YOUR FIRST PYTHON PROGRAM - “HELLO, WORLD!” IN GOOGLE COLAB

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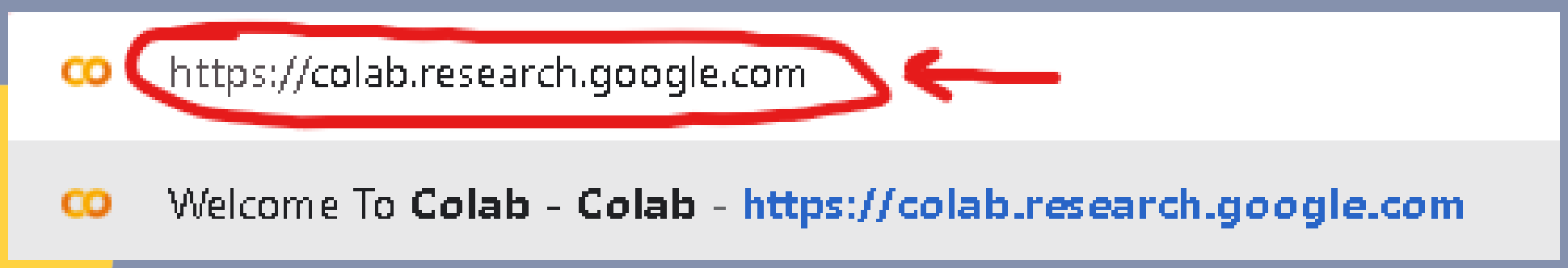
Objectives

- Understand how to create and run a Python script in Google Colab.
- Learn about basic syntax and print statements in Python.

Access Google Colab

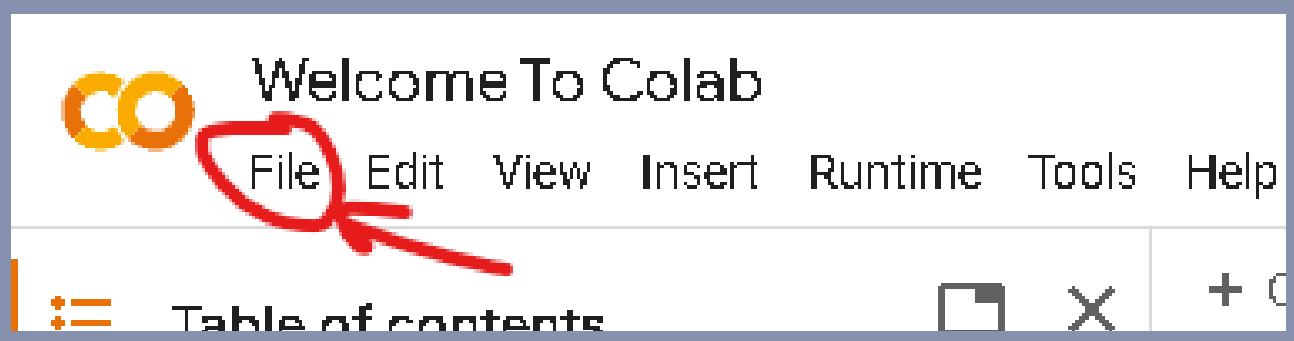
1. **Open Your Web Browser:** Launch your preferred web browser.
2. **Go to Google Colab:** Visit Google Colab https://colab.research.google.com/
3. **Sign In:** If prompted, sign in with your Google account.

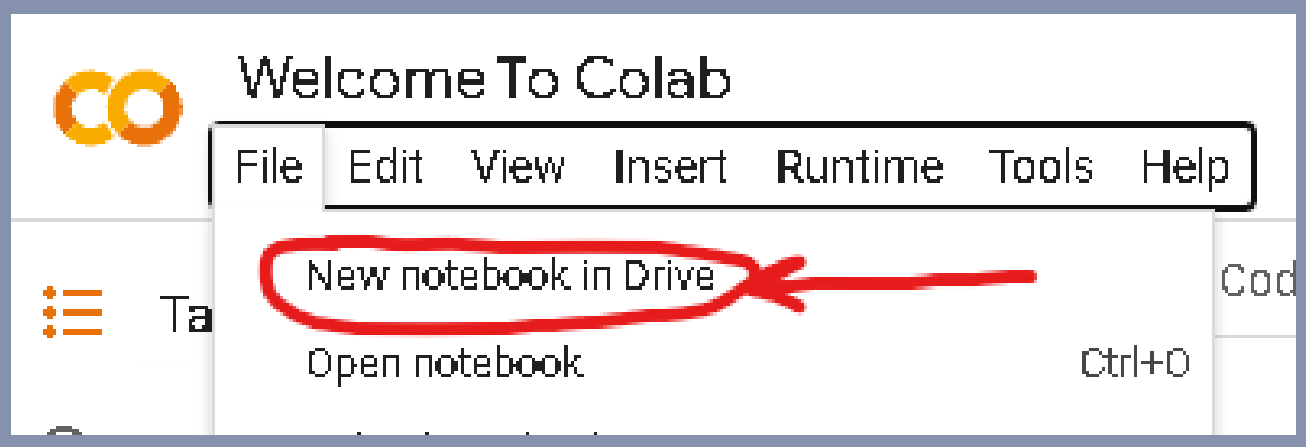


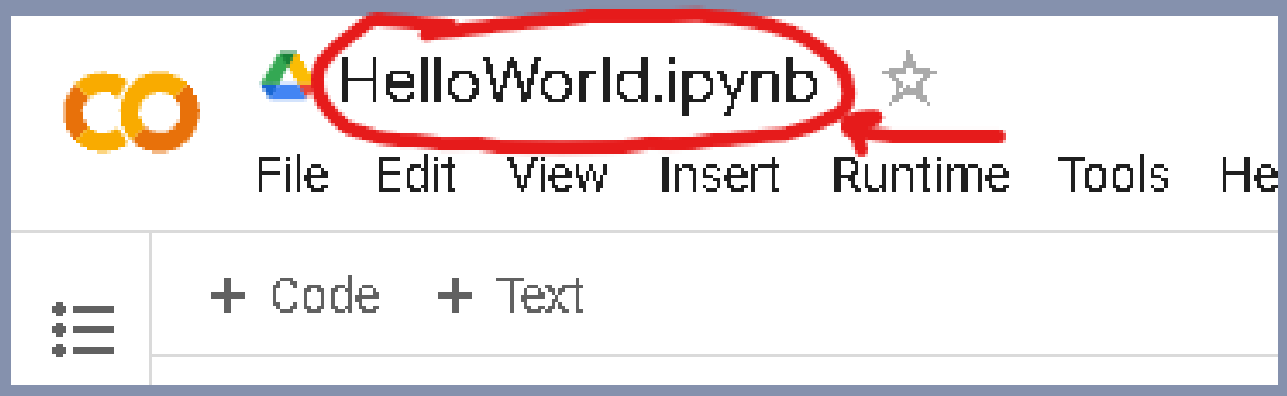
Create a New Notebook

1. **Create a New Notebook:**
    - Click on **‘File’** in the top menu.
    - Select **‘New Notebook’**.
    - A new tab will open with an untitled notebook
2. **Rename Your Notebook:**
    - Click on the title (usually “Untitled0.ipynb”) at the top left.
    - Rename it to **‘HelloWorld.ipynb’** and press **‘Return’** or **‘Enter’**.

Create a New Notebook

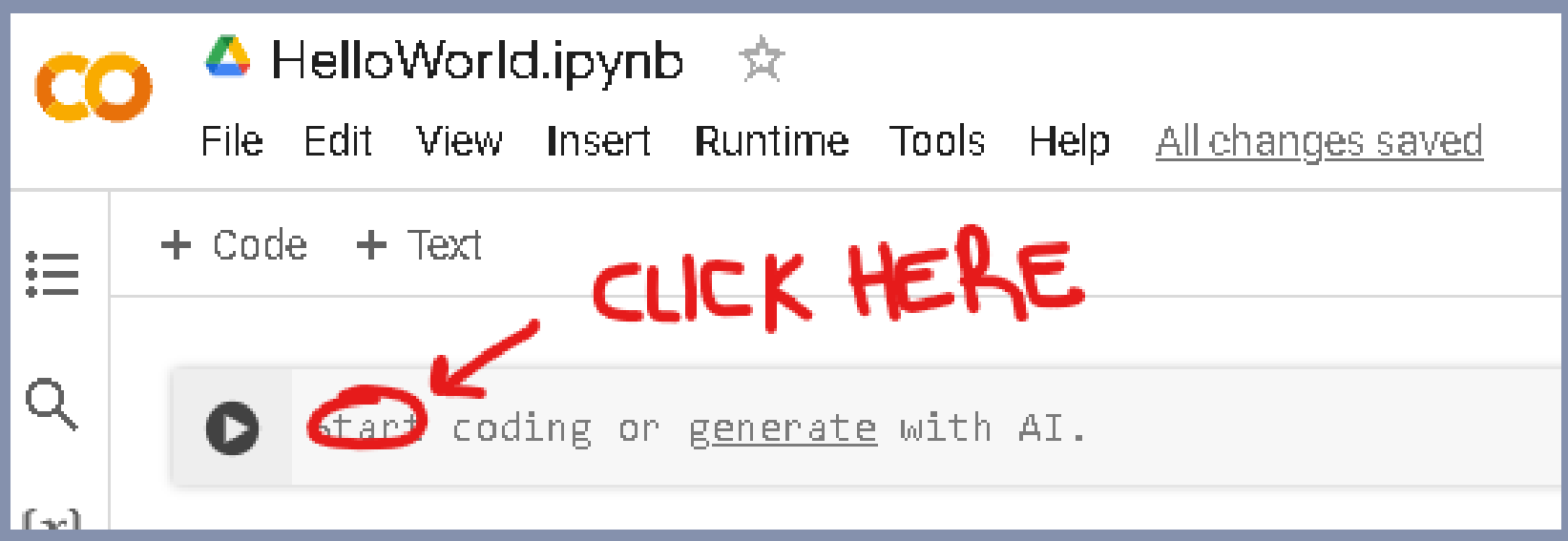






Write Your First Python Code

1. **Add Code Cell:**
    - You should see a code cell (a box with In [ ]:) where you can write your code.
    - If you don’t see a code cell, click on + Code in the toolbar.



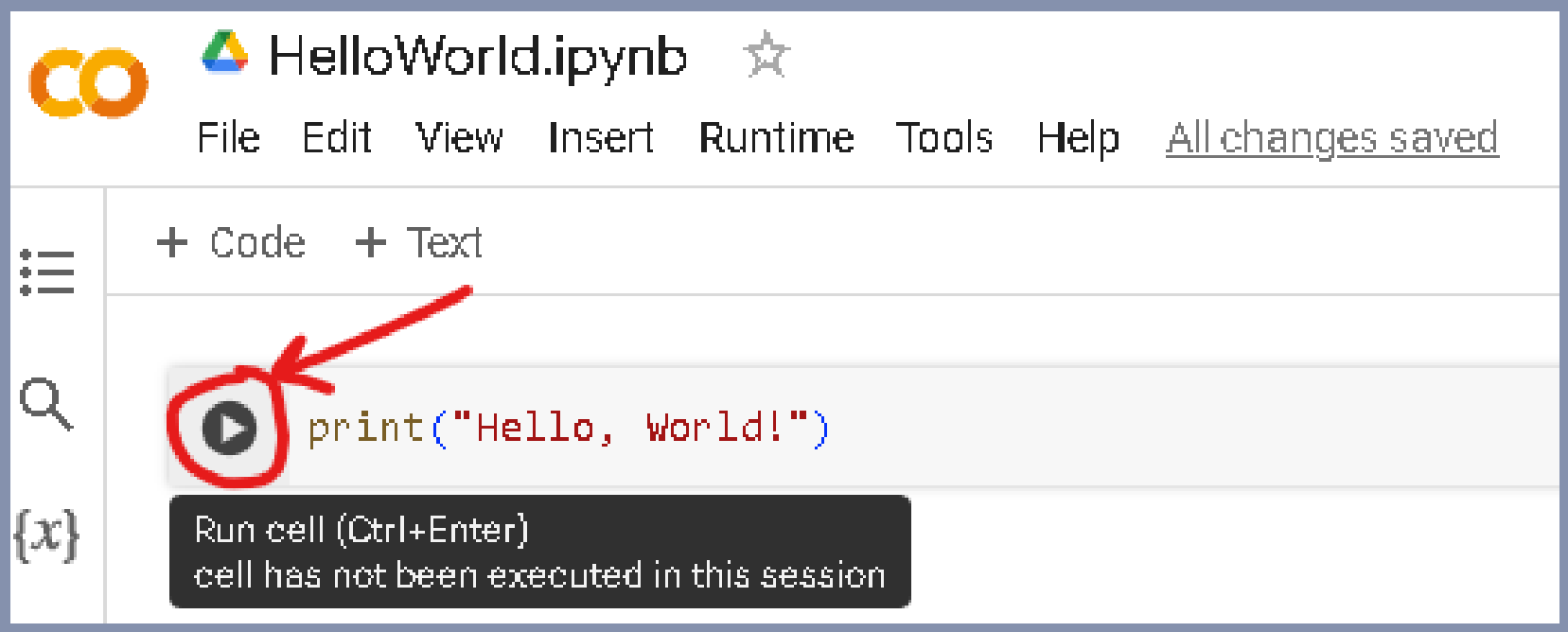
Write Your First Python Code

2. Type the Following Code:

- print(“Hello, World!”)
- This line of code uses the print() function to display the text "Hello, World!" on the screen.

Run Your Python Code

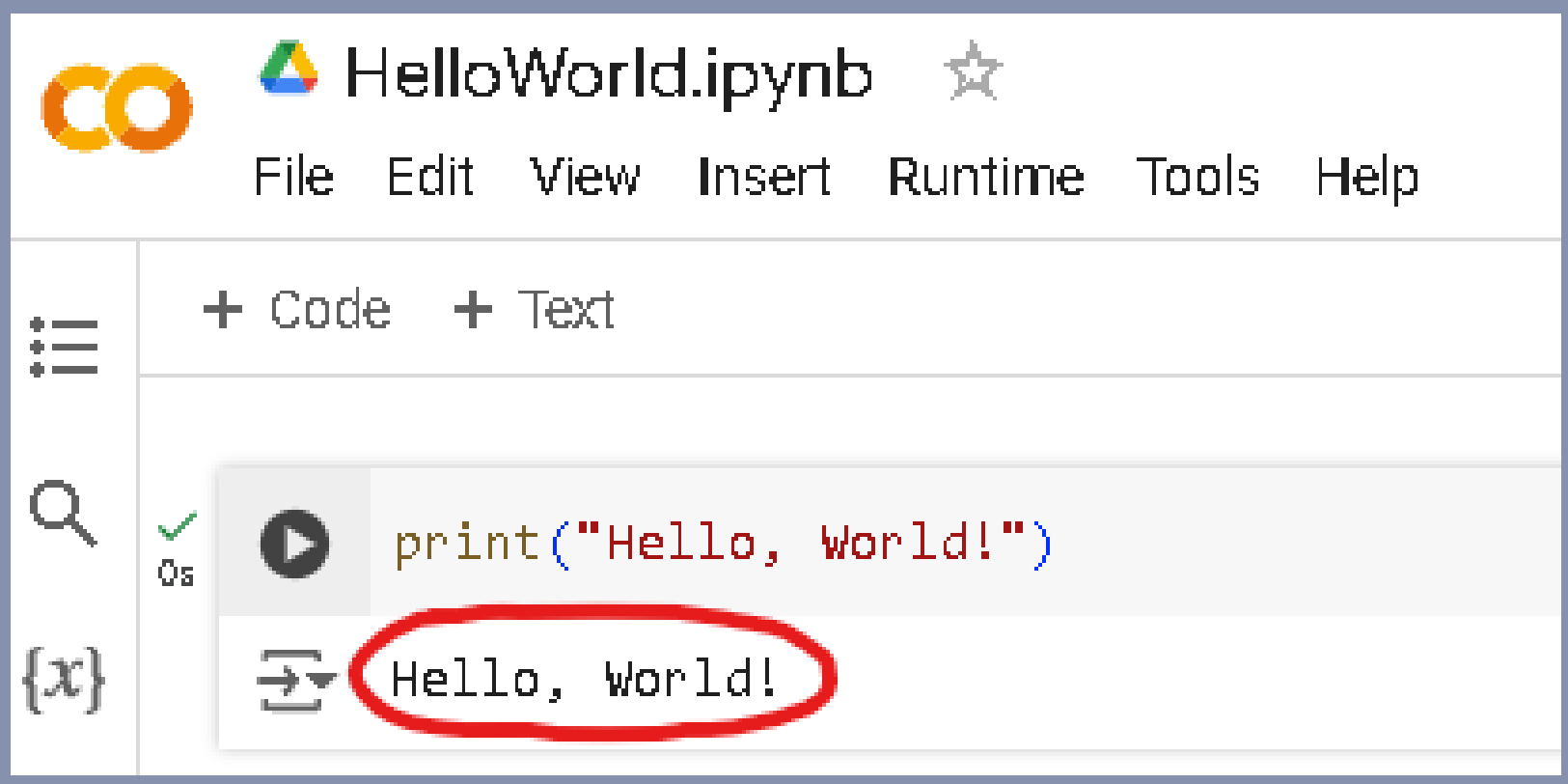
1. **Run the Code Cell:**
   - Click the play button (▶) on the left side of the code cell.
   - Alternatively, you can press Shift + Enter to run the cell.



Run Your Python Code

2. View the Output:

- Below the code cell you should see the output:

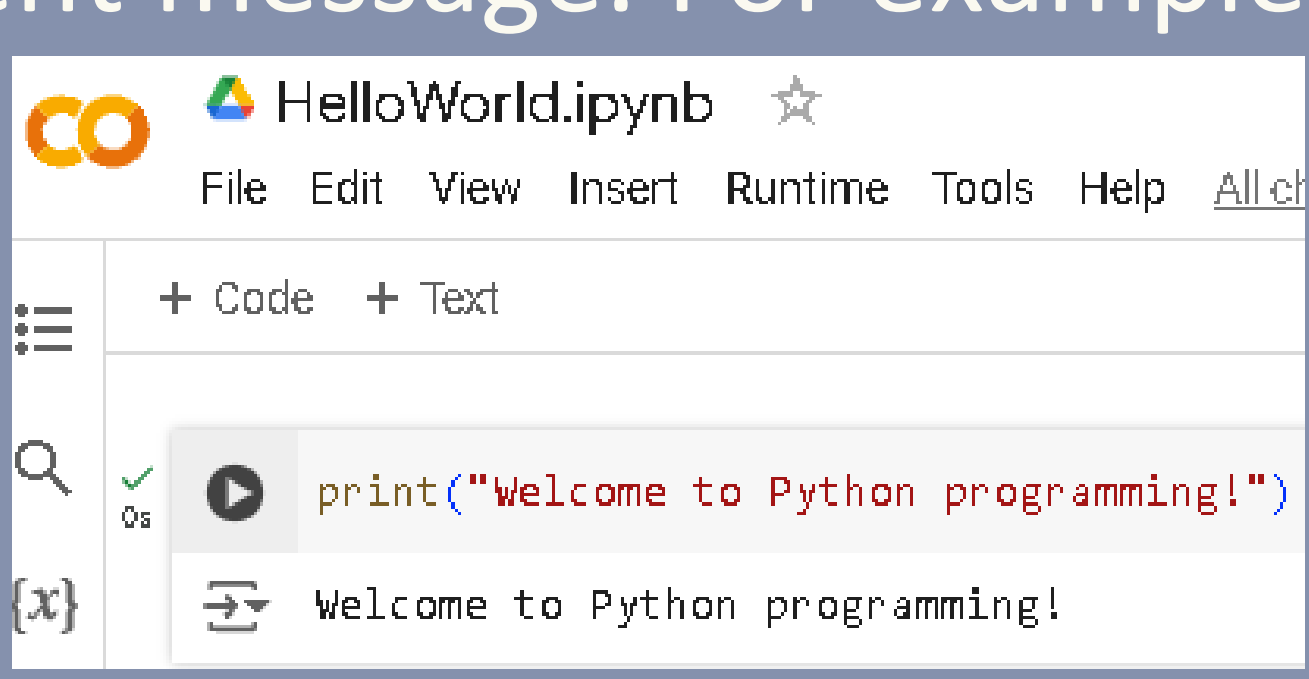


Understanding the Code

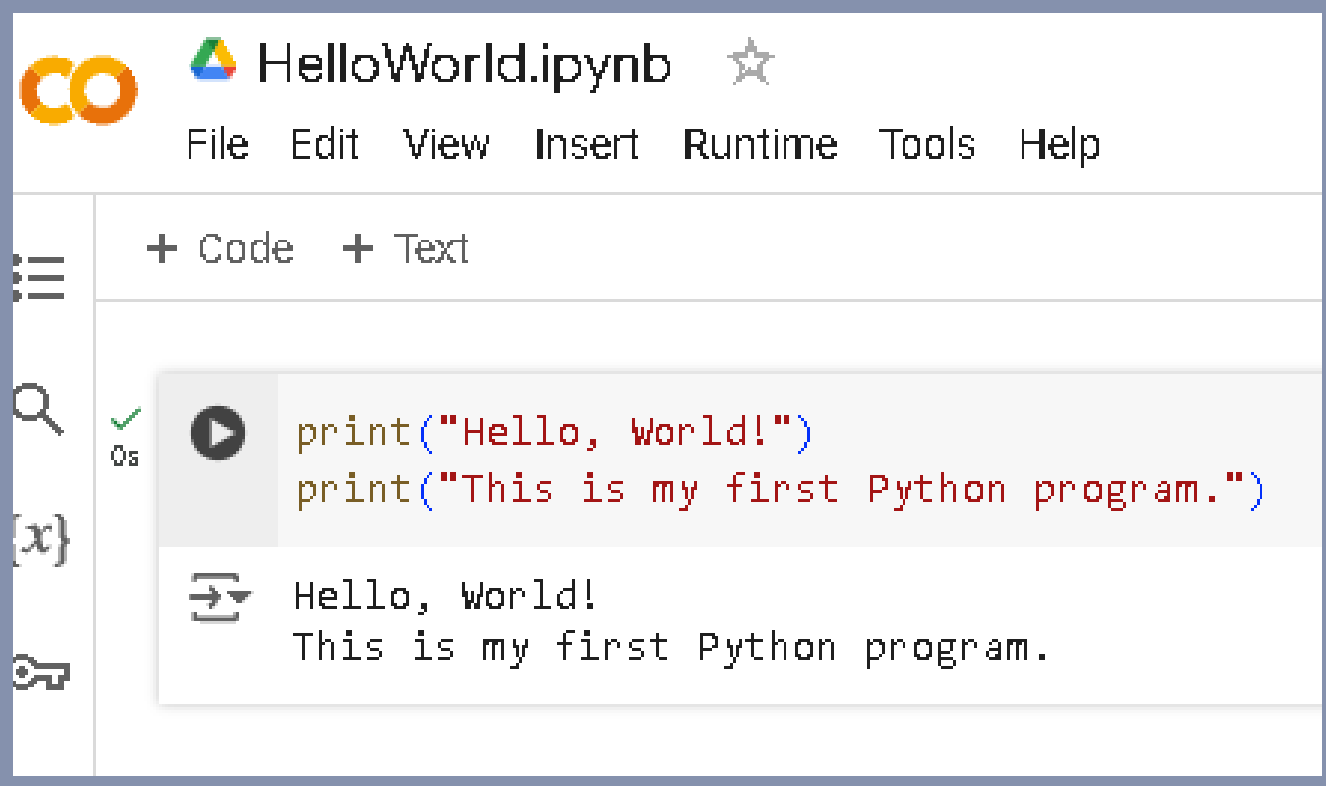
- ‘print()’ Function: This is a built-in function in Python that outputs the specified message to the console. In this case, it outputs the string "Hello, World!".
- **String**: The text inside the quotes is called a string. Strings can be enclosed in either single quotes (‘’) or double quotes (“”).

Experimentation

- **Change the Message:** Modify the string inside the **‘print()’** function to display a different message. For example:



- **Add More Print Statements:** Add additional **‘print()’** statements to display multiple messages:



Save Your Work

1. **Save the Notebook:**
    - Google Colab automatically saves your work to your Google Drive.
    - You can also download the notebook by clicking on **File** > **Download .ipynb** if you want to keep a local copy.

Conclusion

Congratulations! You've just written and executed your first Python program using Google Colab. This simple exercise lays the foundation for understanding how to write and run Python code in a cloud-based environment.

Next Steps

1. In the next tutorial, we can explore more fundamental concepts such as:
    - **Variables and Data Types:** Understanding how to store and manipulate data.
    - **Basic Input/Output:** Learning how to take user input and display output.
    - **Control Structures:** Introducing conditional statements and loops.

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for more tips you didn’t know you needed

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