Teach Yourself Python Fast!

No Installation + Free online tutorials and books

Below is a Step-by-step guide to set up free Google Colab environment and start coding:
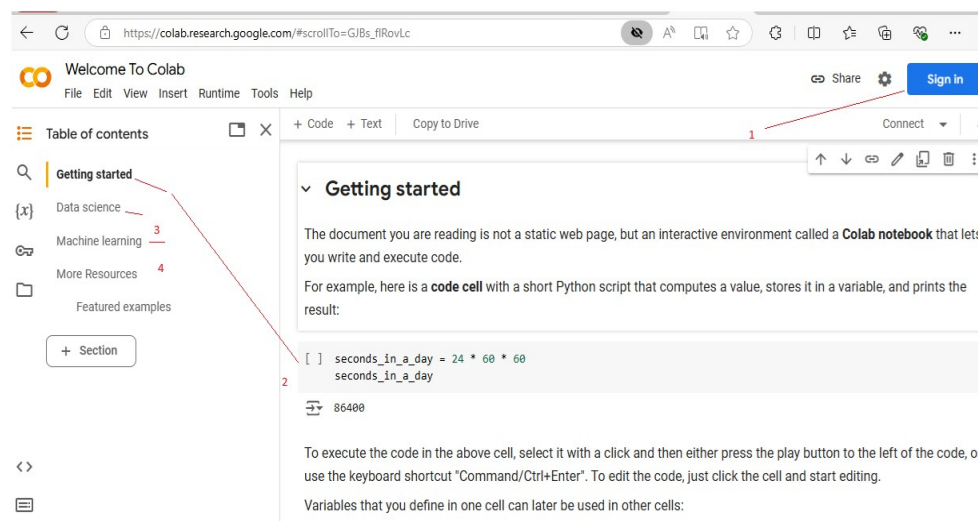
Steps:

Go to Google Colab: https://colab.research.google.com/

> **Sign in to Your Google Account**: If prompted, log in using your Google account credentials. You'll need an account to save your work.

Getting Started:

Read the Featured Example notebook, and learn how to execute/run cells

Familiarize Yourself with the Interface:

> **Cells**: Google Colab uses cells for code and text. Code cells execute Python code, while text cells use Markdown for notes.
> **Toolbar**: You'll find options to run cells, add new cells, save your notebook, and more.

Create Your First Notebook:

> **Click on "File"**: In the top-left corner of the page.

Select "New Notebook": This will create a new Python notebook where you can write your code.

Write Your First Python Code

 In the Code Cell: Click on the empty cell (it will say "Code").
Type your first code: for example:

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

To execute/run the code cell: Click the "Run" button (play icon) on the left of the cell or press Shift + Enter.

Add More Code and Text cells:

To add a Code Cell: Click on the "+ Code" button below your current cell.
To add a Text Cell: Click on "+ Text" to add descriptions or notes.

Save Your Work

Automatic Saving: Your notebook is saved automatically in your Google Drive.
Manual Save: You can also click on "File" > "Save a copy in Drive" to create a backup.

Additional Features

To Install Python Libraries in your notebook: Run in a new cell code the following Python code:
```
!pip install libraryname.
```

For example, run:

```
! pip install pandas as pd
```

to install pandas in your notebook.

Upload Files: Use the left sidebar to upload files you want to work with.

Use free GPU: Go to "Runtime" > "Change runtime type" to select GPU for more intensive computations.

To Share Your Notebook:

Click the "Share" Button: In the top-right corner of the screen.
Set Sharing Permissions: You can share your notebook with others by entering their email addresses or generating a shareable link.

Practice Python Coding:

- Experiment with the free resources on Google Collab

- Check out the online Free Resources listed below:

Free Online Tutorials:

1. **Codecademy - Python Course**

   - Codecademy Python
   - Interactive course for beginners to learn Python basics.
2. **Automate the Boring Stuff with Python**

   - [Book & Online Course](#)
   - A practical book that teaches Python with real-world projects.
3. **Python.org - Python for Beginners**

   - [Official Python Docs](#)
   - A comprehensive official tutorial for learning Python.

Free Books:

1. **Python**

   - **"Think Python" by Allen B. Downey**

     - Read Online
     - A great introduction to Python with a focus on problem-solving.
   - **"A Byte of Python" by Swaroop C H**

     - Read Online
       A beginner-friendly book covering the basics of Python programming.