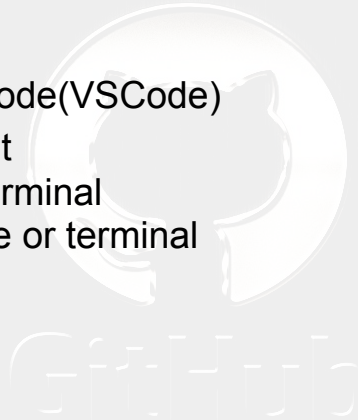




# COURSE OUTLINE

- Introduction to Github
- Why GitHub
- Setup
  - Installing GIT, Visual Studio Code(VSCode)
- Signup or Creating a Github account
- Setting up your vscode and bash Terminal
- Opening project folder inside vscode or terminal
- Creating repository
- First commit to the repository
- Updating the repository
- Branch
- Cloning the repository
- Collaborative work
  - Forking a repository
  - Pull request



# INTRODUCTION

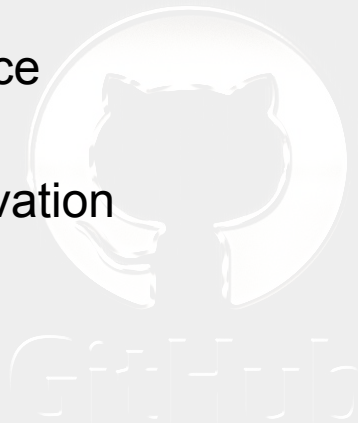
## What is GitHub?

**GitHub** is a developer platform that allows developers to create, store, manage, and share their code. It combines the power of Git, a distributed version control system, with additional features such as access control, collaborative work space, software feature requests, task management, and continuous integration.

GitHub

## Why Github?

- Community and Open Source
- Features Beyond Code
- Industry Standard and Innovation



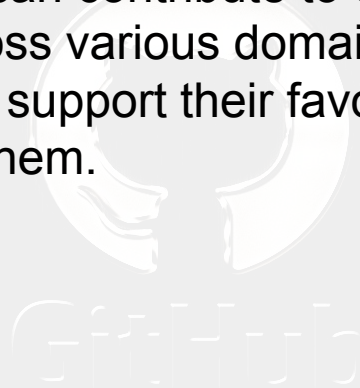
## **Collaboration and Version Control:**

Git Integration: GitHub is built on Git, a distributed version control system. Developers can easily track changes, collaborate with others, and maintain a history of their code.

Repositories: GitHub provides a place to host Git repositories, making it easy to share and collaborate on projects.

**Contributions:** Developers can contribute to existing projects, review code, and explore repositories across various domains.

GitHub Sponsors: Users can support their favorite open source maintainers and projects by investing in them.



## **Industry Standard and Innovation:**

Widely Adopted: GitHub is the go-to platform for many developers, organizations, and open source projects.

Innovation: GitHub constantly evolves, introducing new features and improving existing ones.

GitHub

# Setup

Firstly, you have to create an account on github with an email, that you can access easily.

Preferably use Gmail instead of yahoo mail so as to get the verification code faster

Now Download, Git and Vscode

Open your browser and search for “Vscode download”





About 3,280,000 results



## Visual Studio Code

Source-code editor

Download

Tutorial

Features

Platforms

Documentation

Forums

System requirements

## Available On



Microsoft St...



code.visuals...



## Visual Studio Code

<https://apps.microsoft.com/detail/XP9KHM4BK9FZ7Q>

FREE

4.3/5



78

Developer Tools

Software

Free, lightweight, extensible code editor for building web, desktop, and mobile applications, using any programming language and framework.



Install on Windows



Visual Studio Code

<https://code.visualstudio.com/download>

## Download Visual Studio Code - Mac, Linux, Windows

(Web) Visual Studio Code is a free and open source code editor for web and cloud development.

Choose your platform and installer type to download the latest version 1.80 with new

## Visual Studio Code

Source-code editor



Visual Studio Code, also commonly referred to as VS Code, is a source-code editor developed by Microsoft for Windows, Linux, macOS and web browsers. Features include support for debugging, syntax high...

[code.visualstudio.com](https://code.visualstudio.com)

Wikipedia



YouTube

Activate Windows

Go to Settings to activate Windows.

[Version 1.89](#) is now available! Read about the new features and fixes from April.

# Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



↓ Windows

Windows 10, 11

User Installer	x64	Arm64
System Installer	x64	Arm64
.zip	x64	Arm64
CLI	x64	Arm64



↓ .deb

Debian, Ubuntu

↓ .rpm

Red Hat, Fedora, SUSE

.deb	x64	Arm32	Arm64
.rpm	x64	Arm32	Arm64
.tar.gz	x64	Arm32	Arm64
Snap	Snap Store		



↓ Mac

macOS 10.15+

.zip	Intel chip	Apple silicon	Universal
CLI	Intel chip	Apple silicon	

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About 6,740,000 results

## Git

Version control system

Tutorials

Download

Features

Documentation



### Git

<https://git-scm.com/downloads>

Software

Git is a popular version control system for software development. It allows you to manage different versions of code within a repository (repo). You can easily install Git on Windo...

Download



Git

<https://git-scm.com/downloads>

### Git - Downloads

**(Web) Download** the latest source release of **Git** for Windows, macOS, Linux/Unix, or get the development version via **Git** itself. Find various **Git** logos and GUI tools for different ...

Windows

Documentation

## Git

Version control system



Git is a distributed version control system that tracks versions of files. It is often used to control source code by programmers collaboratively developing software. Design goals of Git include speed...

[git-scm.com](https://git-scm.com)

Wikipedia



About

Documentation

Downloads

GUI Clients

Logos

Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

## Downloads



macOS



Windows



Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

### GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

### Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)



### Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

Activate Windows  
Go to Settings to activate Windows.

# Setup

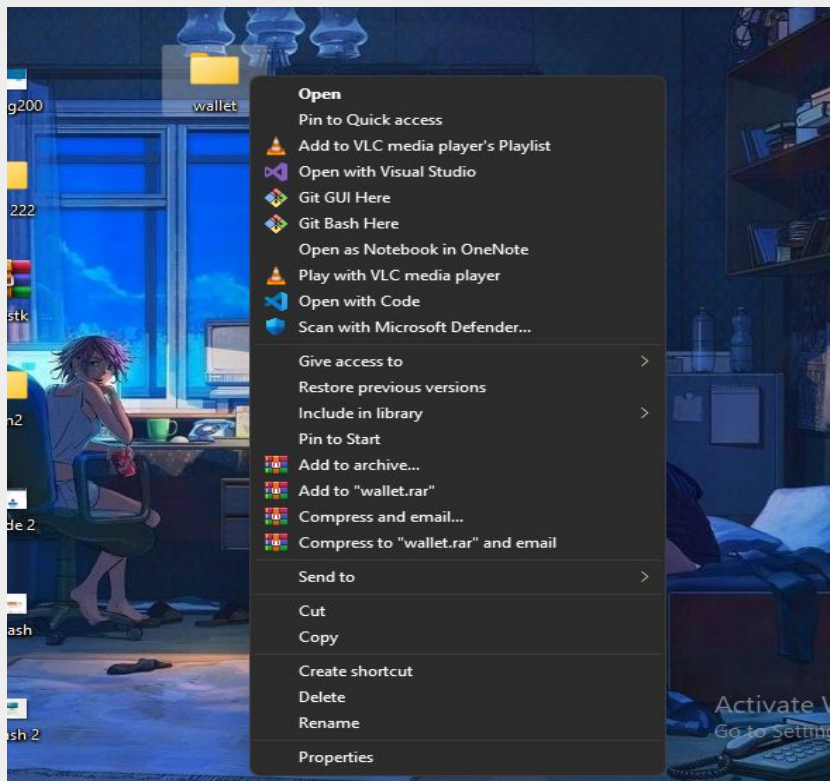
Now that we've installed Git and Vscode and also signed up to github

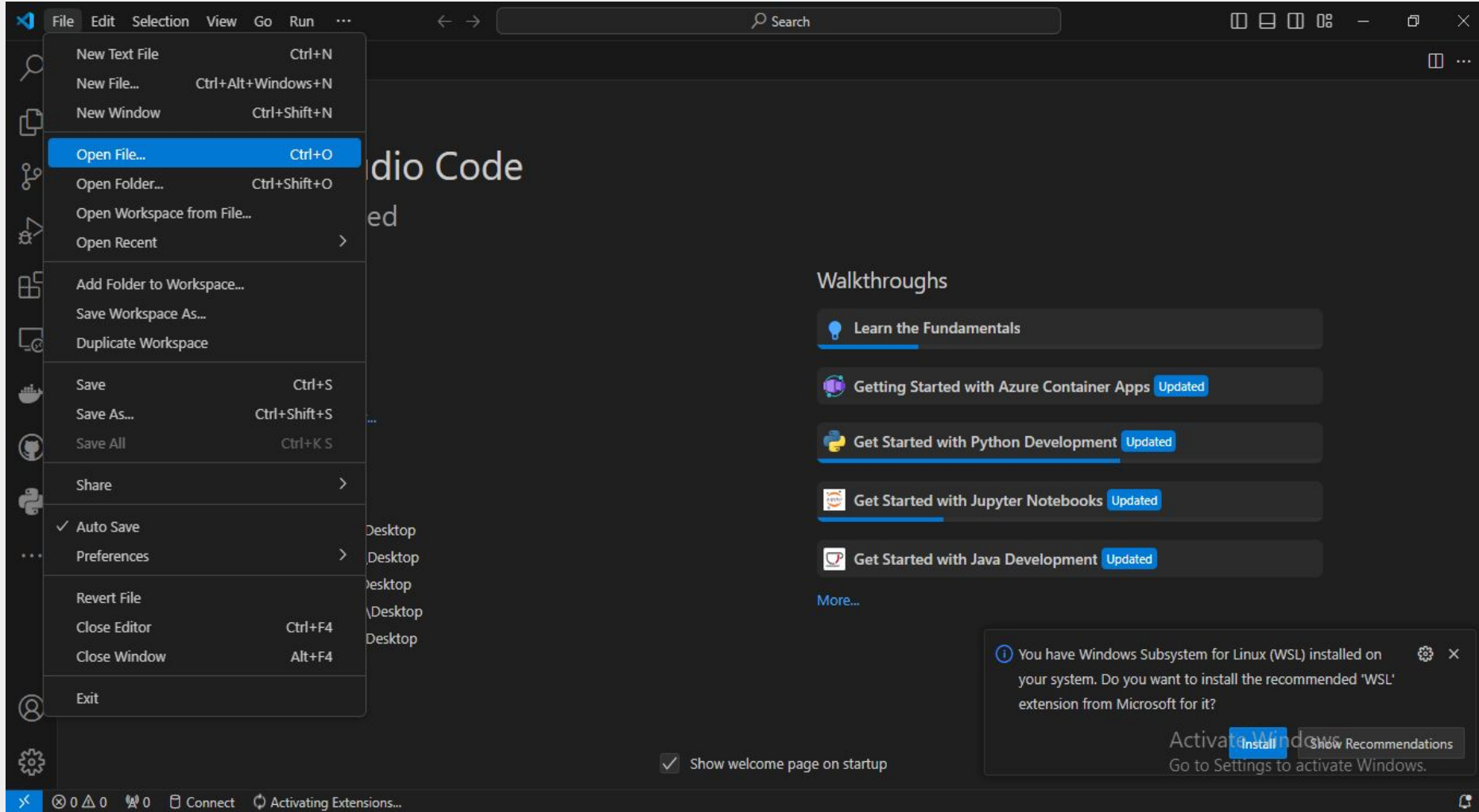
Let's set up the vscode and git together



# Opening your working folder in vscode

If you properly installed your Vscode you should be able to do this





New Text File Ctrl+N

New File... Ctrl+Alt+Windows+N

New Window Ctrl+Shift+N

Open File... Ctrl+O

Open Folder... Ctrl+Shift+O

Open Workspace from File...

Open Recent >

Add Folder to Workspace...

Save Workspace As...

Duplicate Workspace

Save Ctrl+S

Save As... Ctrl+Shift+S

Save All Ctrl+K S

Share >

✓ Auto Save Desktop

Preferences > Desktop

Revert File Desktop

Close Editor Ctrl+F4 Desktop

Close Window Alt+F4 Desktop

Exit

## Walkthroughs

Learn the Fundamentals

Getting Started with Azure Container Apps Updated

Get Started with Python Development Updated

Get Started with Jupyter Notebooks Updated

Get Started with Java Development Updated

More...

You have Windows Subsystem for Linux (WSL) installed on your system. Do you want to install the recommended 'WSL' extension from Microsoft for it?

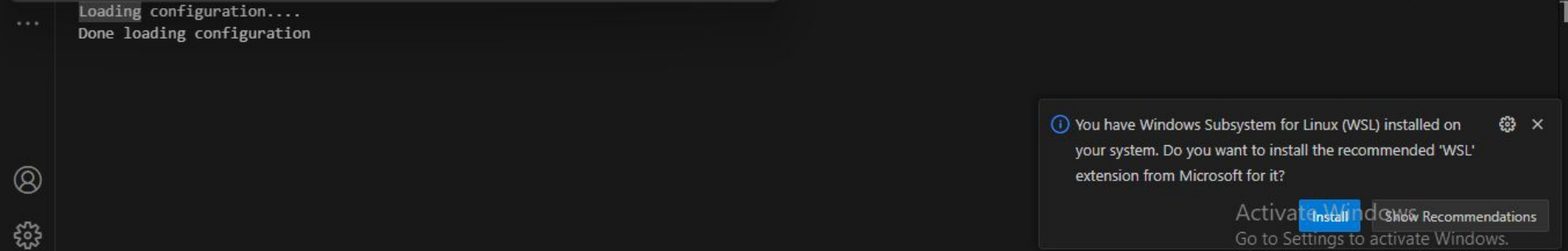
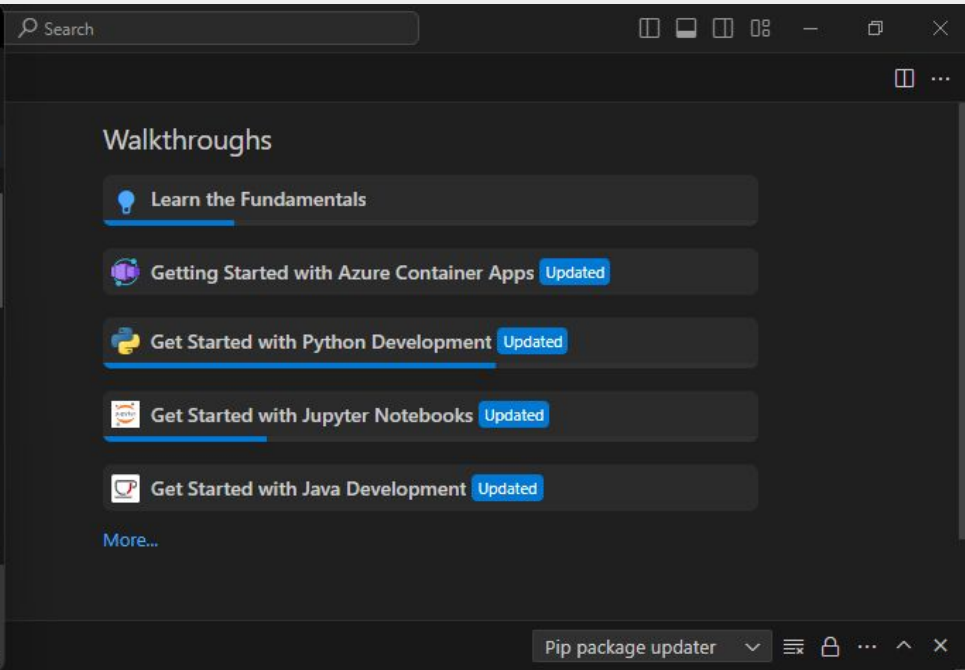
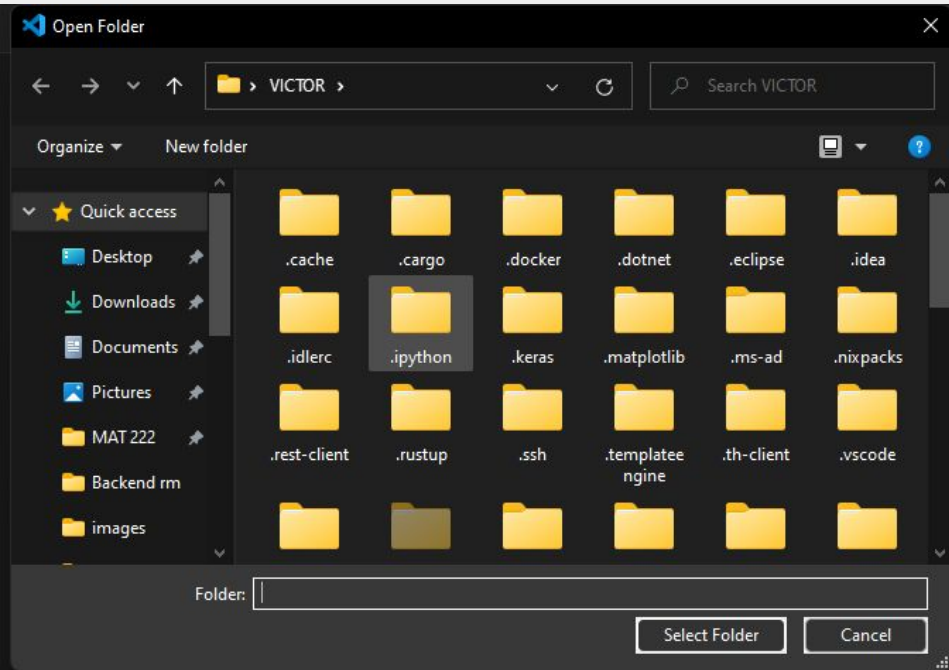
Install

Show Recommendations

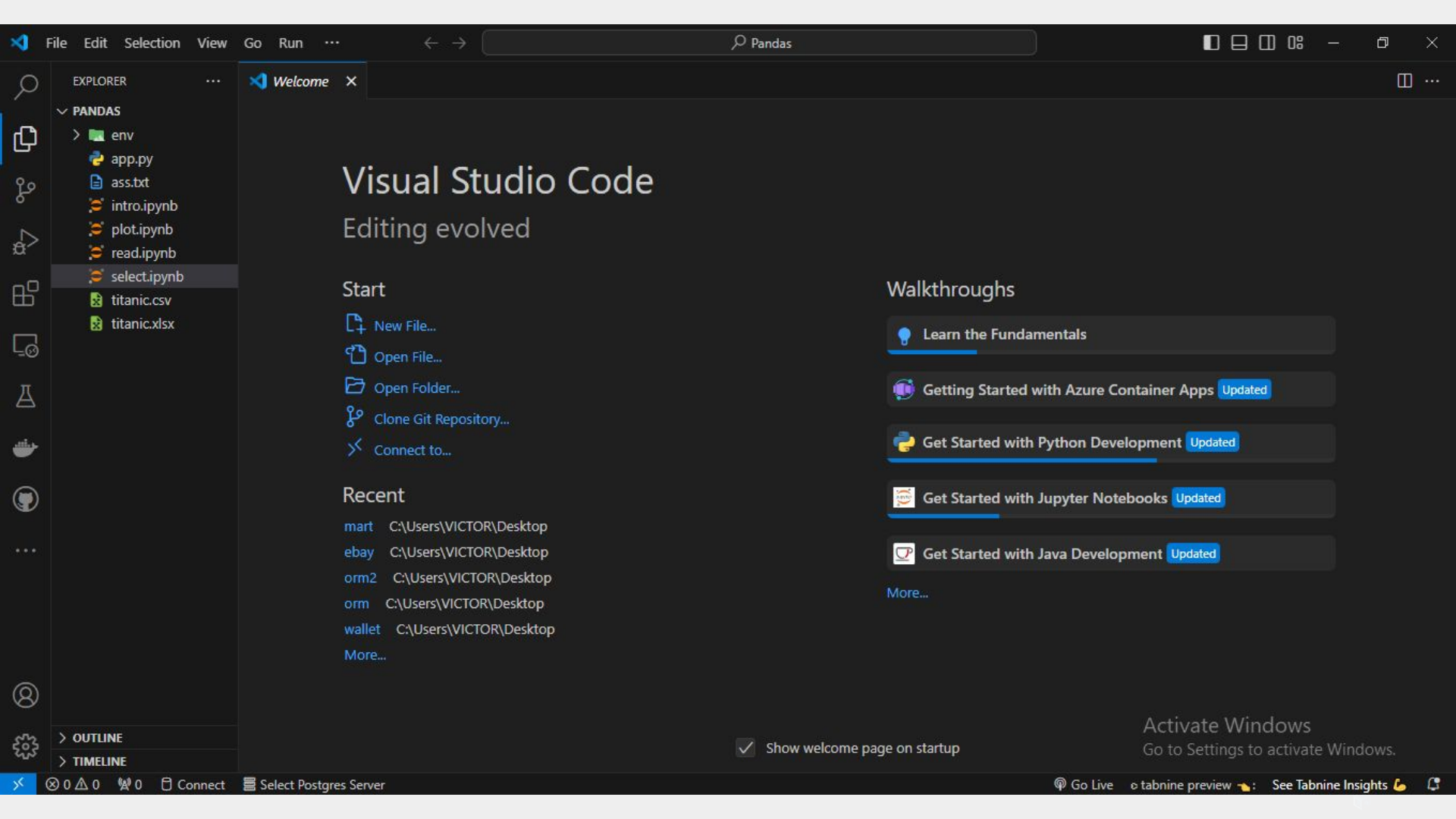
Activate Windows  
Go to Settings to activate Windows.

☒ Show welcome page on startup









EXPLORER

... Welcome X

▼ PANDAS

- > env
- app.py
- ass.txt
- intro.ipynb
- plot.ipynb
- read.ipynb
- select.ipynb**
- titanic.csv
- titanic.xlsx

> OUTLINE

> TIMELINE

# Visual Studio Code

Editing evolved

## Start

- New File...
- Open File...
- Open Folder...
- Clone Git Repository...
- Connect to...

## Recent

- mart C:\Users\VICTOR\Desktop
- ebay C:\Users\VICTOR\Desktop
- orm2 C:\Users\VICTOR\Desktop
- orm C:\Users\VICTOR\Desktop
- wallet C:\Users\VICTOR\Desktop
- More...

## Walkthroughs

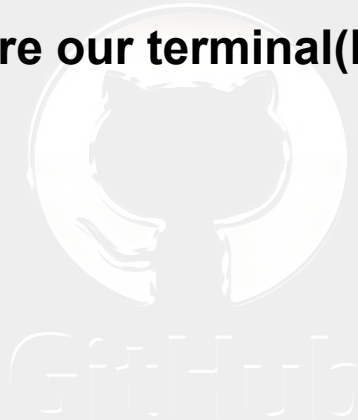
- Learn the Fundamentals
- Getting Started with Azure Container Apps Updated
- Get Started with Python Development Updated
- Get Started with Jupyter Notebooks Updated
- Get Started with Java Development Updated

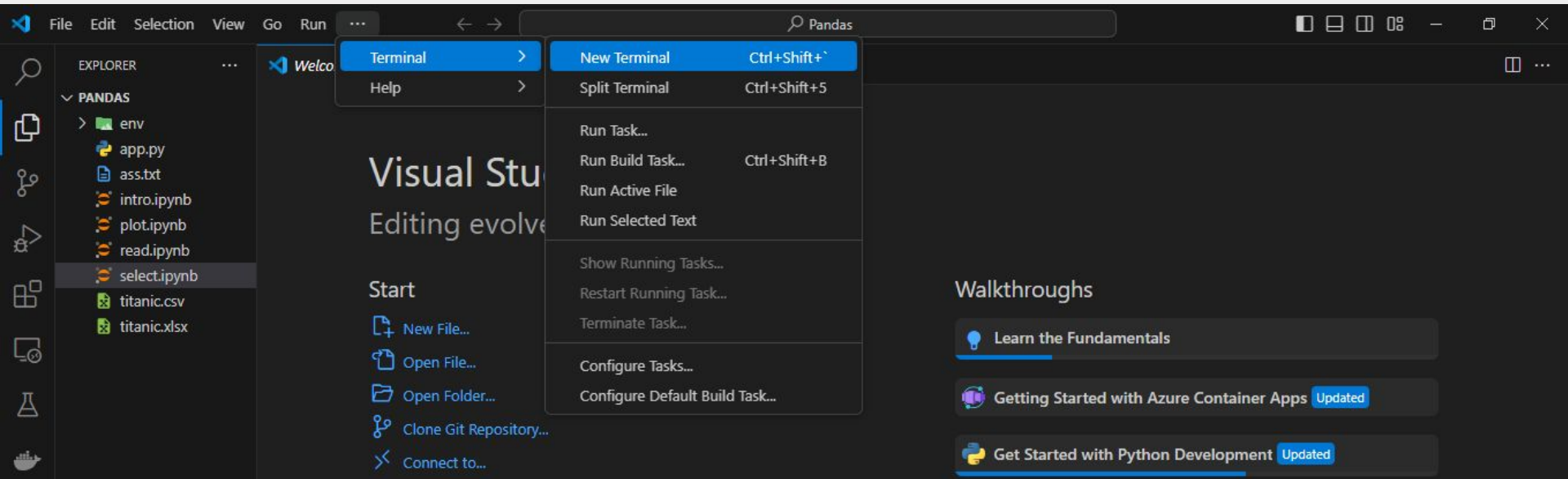
More...

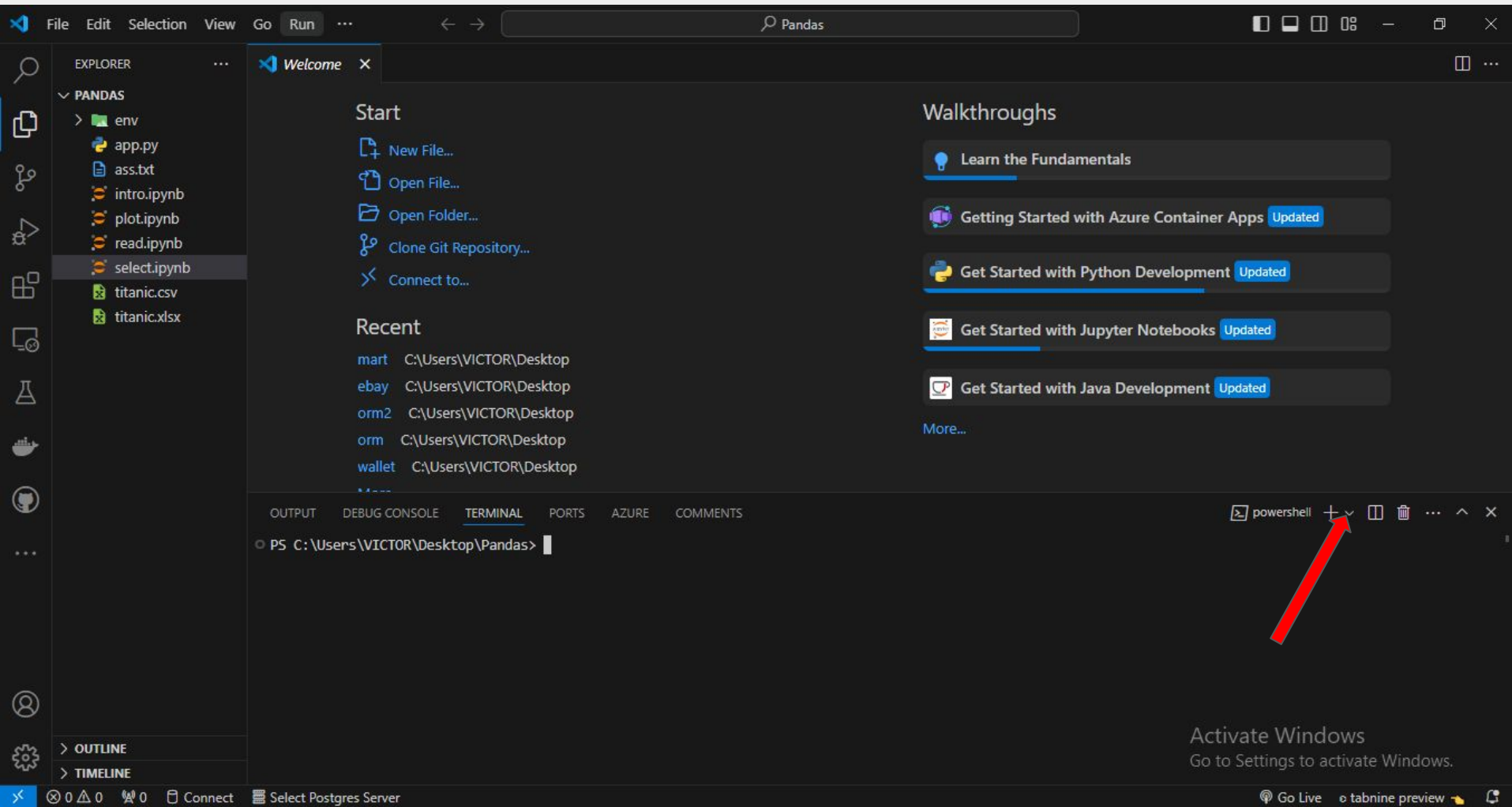
☒ Show welcome page on startup

Activate Windows  
Go to Settings to activate Windows.

**Now let's want to Configure our terminal(Bash) without Vscode**







## Walkthroughs



Learn the Fundamentals



Getting Started with



Get Started with Python



Get Started with Java



Get Started with JavaScript

[More...](#)

PowerShell (Default)

Azure Cloud Shell (Bash)

Azure Cloud Shell (PowerShell)

Command Prompt

Git Bash

JavaScript Debug Terminal

Split Terminal



Configure Terminal Settings

Select Default Profile

Run Task...

Configure Tasks...

AZURE COMMENTS

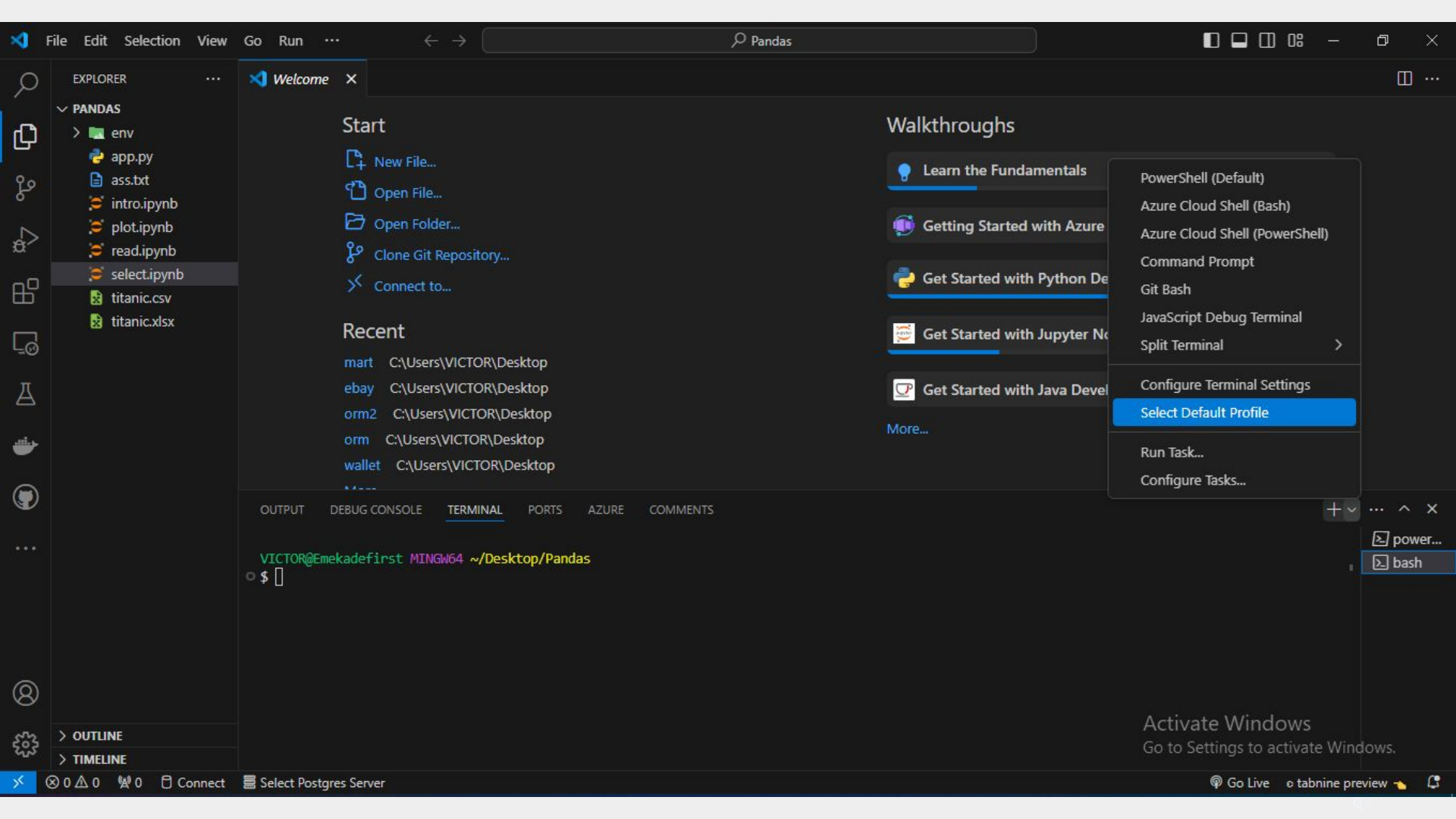


powershell



Activate Windows

Go to Settings to activate Windows.



Welcome










## Start




- New
- Open
- Open
- Clone Git Repository...
- Connect to...

## Recent

- mart C:\Users\VICTOR\Desktop
- ebay C:\Users\VICTOR\Desktop
- orm2 C:\Users\VICTOR\Desktop
- orm C:\Users\VICTOR\Desktop
- wallet C:\Users\VICTOR\Desktop



Select your default terminal profile

 PowerShell	C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe	profiles	
 Command Prompt	C:\Windows\System32\cmd.exe		
 Git Bash	C:\Program Files\Git\bin\bash.exe --login -i		
 Azure Cloud Shell (Bash)		contributed	
 Azure Cloud Shell (PowerShell)			
 JavaScript Debug Terminal			
 Windows PowerShell	C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe	detected	

-  Get Started with Python Development Updated
-  Get Started with Jupyter Notebooks Updated
-  Get Started with Java Development Updated

More...

VICTOR@Emekadefirst MINGW64 ~/Desktop/Pandas  
\$

-  power...
-  bash

Now that our vscode and terminal has been configured has been configure, Let's now head to github and create our first github repository.

### **What is Github repository (Repo for short)**

A repository is **a place where you can store your code, your files, and each file's revision history on GitHub.** Learn about repository terminology, ownership, collaboration, and visibility.







Dashboard

Q Type to search



## Top Repositories



New

Find a repository...

- emekadefirst/Blockchain-App-API
- emekadefirst/film-box
- emekadefirst/Class-project-
- emekadefirst/OS-marketpalce
- emekadefirst/friendnpalservice
- emekadefirst/d\_xender
- Olayiwolaaa/top100NGaple music-to-spotify-audiomack-boomplay

Show more

## Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

## Home

Send feedback

Filter 8

### Updates to your homepage feed

We've combined the power of the Following feed with the For you feed so there's one place to discover content on GitHub. There's improved filtering so you can customize your feed exactly how you like it, and a shiny new visual design. ✨

[Learn more](#)



**tobySolutions** followed  
15 hours ago



**Teddy Oweh** teddyoweh

ML & QC

98 repositories 359 followers

Follow



**rotimi-best** forked a repository  
2 days ago



**rotimi-best/html-to-image**

Star



## GitHub Galaxy

Join us virtually to explore our vision for AI-powered development, productivity, and modernization.

Register now



## UNIVERSE24

Convince your boss to send you to GitHub Universe in SF on October 29-30.

Use our ready-to-send template today. Tickets to our global developer event are 35% off — only for a limited time.

 New

Find a repository...

- emekadefirst/Blog-App-API
- emekadefirst/film-box
- emekadefirst/Class-project-
- emekadefirst/OS-marketpalce
- emekadefirst/friendnpalservice
- emekadefirst/d\_xender
- Olayiwolaaa/top100NGapplemusic-to-spotify-audiomack-boomplay

[Show more](#)

### Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

<https://github.com/new>

[Send feedback](#)

Filter 8


## Updates to your homepage feed

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[Learn more](#)

 **tobySolutions** followed  
15 hours ago

 **Teddy Oweh** teddyoweh  
ML & QC  
98 repositories 359 followers

 **rotimi-best** forked a repository  
2 days ago

 [rotimi-best/html-to-image](#)

**UNIVERSE24**

**Convince your boss to send you to  
GitHub Universe in SF on October  
29-30.**

Use our ready-to-send template today. Tickets to  
our global developer event are 35% off — only for  
a limited time. [Go to Settings to activate Windows.](#)



New repository

Q Type ↗ to search



## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

*Required fields are marked with an asterisk (\*).*

Owner \*

Repository name \*



emekadefirst



Great repository names are short and memorable. Need inspiration? How about [ideal-octo-couscous](#) ?

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:




Add a README file


This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

Activate Windows

Go to Settings to activate Windows.

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**  
You choose who can see and commit to this repository.

#### Initialize this repository with:

☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more about READMEs.](#)

#### Add .gitignore


.gitignore template: **None** ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

#### Choose a license

License: **None** ▾

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

 You are creating a public repository in your personal account.

Create repository



© 2024 GitHub, Inc. [Terms](#) [Privacy](#) [Security](#) [Status](#) [Docs](#) [Contact](#) [Manage cookies](#) [Do not share my personal information](#)

Activate Windows  
Go to Settings to activate Windows.



emekadefirst / Git

Q Type ↗ to search



<> **Code** Issues Pull requests Actions Projects Wiki Security Insights Settings

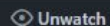


Git

Public



Pin



Unwatch

1



Fork

0



Star

0



### Set up GitHub Copilot

Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Get started with GitHub Copilot



### Add collaborators to this repository

Search for people using their GitHub username or email address.

Invite collaborators

## Quick setup — if you've done this kind of thing before



Set up in Desktop

or

HTTPS

SSH

<https://github.com/emekadefirst/Git.git>



Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

## ...or create a new repository on the command line

```
echo "# Git" >> README.md
git init
git add README.md
```

Activate Windows

Go to Settings to activate Windows.



Set up in Desktop

or

HTTPS

SSH

<https://github.com/emekadefirst/Git.git>

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

### ...or create a new repository on the command line

```
echo "# Git" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/emekadefirst/Git.git
git push -u origin main
```



### ...or push an existing repository from the command line

```
git remote add origin https://github.com/emekadefirst/Git.git
git branch -M main
git push -u origin main
```



**ProTip!** Use the URL for this page when adding GitHub as a remote.



© 2024 GitHub, Inc. [Terms](#) [Privacy](#) [Security](#) [Status](#) [Docs](#) [Contact](#) [Manage cookies](#) [Do not share my personal information](#)

Activate Windows  
Go to Settings to activate Windows.



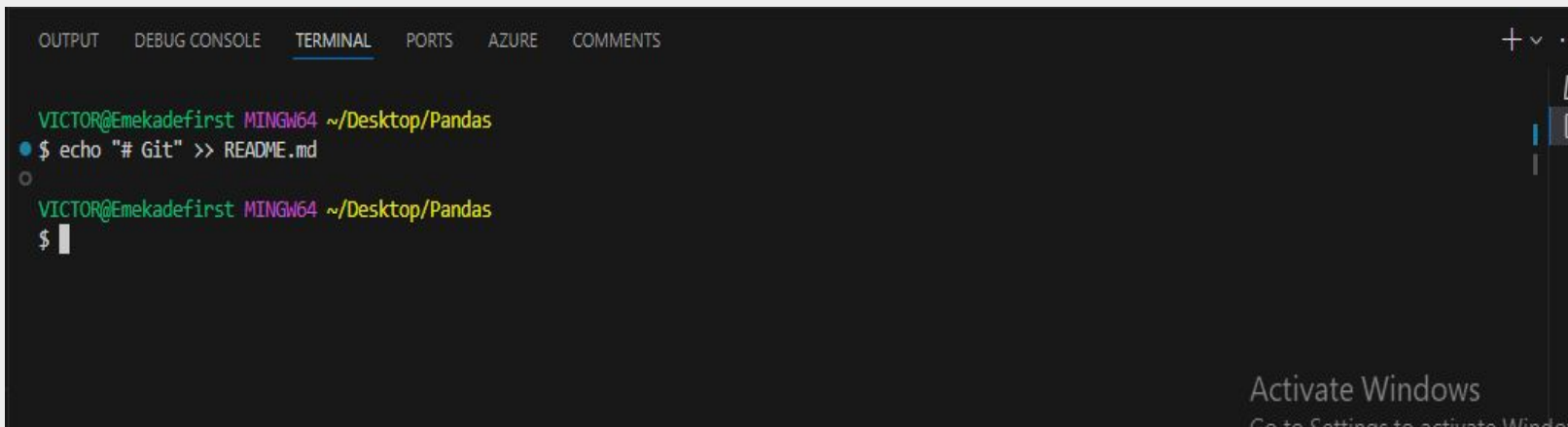
Before we continue, We need to understand what README.md is. README.md is a file that contain instruction and information about a Project. So it is essential that your README.md file is created. In this section we are going to copy the codes provided by github one after the other.

First, on your created terminal copy the first line of code from the github repo as displayed in the image below to create the README.md file

...or create a new repository on the command line

```
echo "# Git" >> README.md  
git init  
git add README.md  
git commit -m "first commit"  
git branch -M main  
git remote add origin https://github.com/emekadefirst/Git.git  
git push -u origin main
```

Next copy the next line of and paste in your terminal



```
OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  AZURE  COMMENTS

VICTOR@Emekadefirst MINGW64 ~/Desktop/Pandas
$ echo "# Git" >> README.md
VICTOR@Emekadefirst MINGW64 ~/Desktop/Pandas
$
```

Activate Windows  
Go to Settings to activate Windows

Next copy the next line of and paste in your terminal i.e git init

```
`git init`
```

To initialize github presence into your project

Next copy

```
`git add README.md`
```

Remove the README.md and add .

```
`git add`.
```



