



# JavaScript Runtime Environment Setup



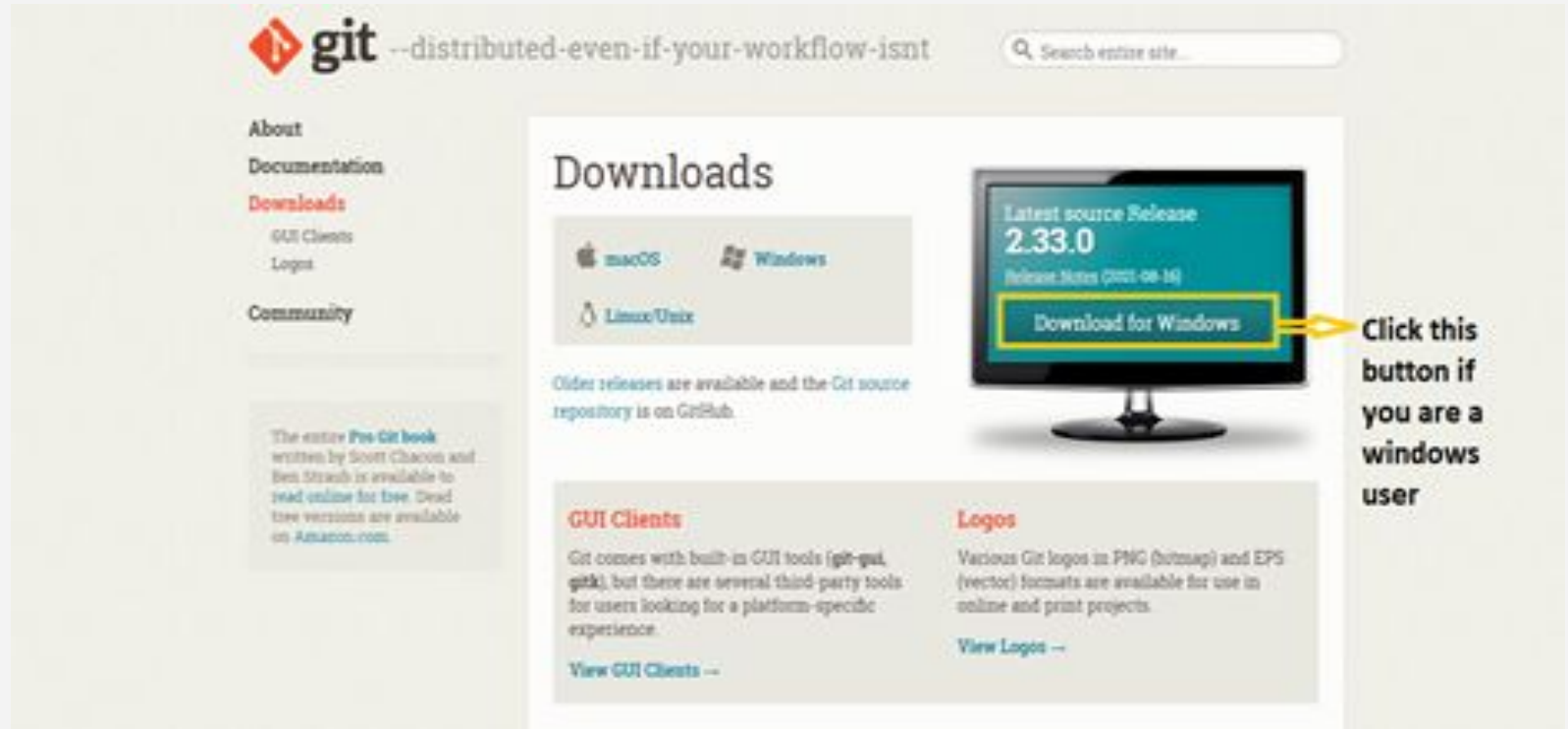
# Required Tools and Software



- Git bash for command line
  - Node.js for executing JS
  - Visual Studio Code for IDE
- 

# Step 1: Download Git On your System

- ❖ Go to <https://git-scm.com/downloads> and download git according to your operating system. Here I will give the example for windows operating system.



The screenshot shows the Git website's Downloads page. The header features the Git logo and the tagline "--distributed-even-if-your-workflow-isnt", along with a search bar. The left sidebar contains links for "About", "Documentation", "Downloads" (highlighted in red), "GUI Clients", "Logos", and "Community". Below the sidebar, there is a promotional text for the "Pro-Git book". The main content area is titled "Downloads" and includes buttons for "macOS", "Windows", and "Linux/Unix". A monitor graphic displays the "Latest source Release 2.33.0" and a yellow box highlights the "Download for Windows" button. An annotation with a yellow arrow points to this button, stating "Click this button if you are a windows user". Below the "Downloads" section, there are two columns: "GUI Clients" and "Logos", each with descriptive text and a "View" link.

**git** --distributed-even-if-your-workflow-isnt

Search entire site...

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 --](#)

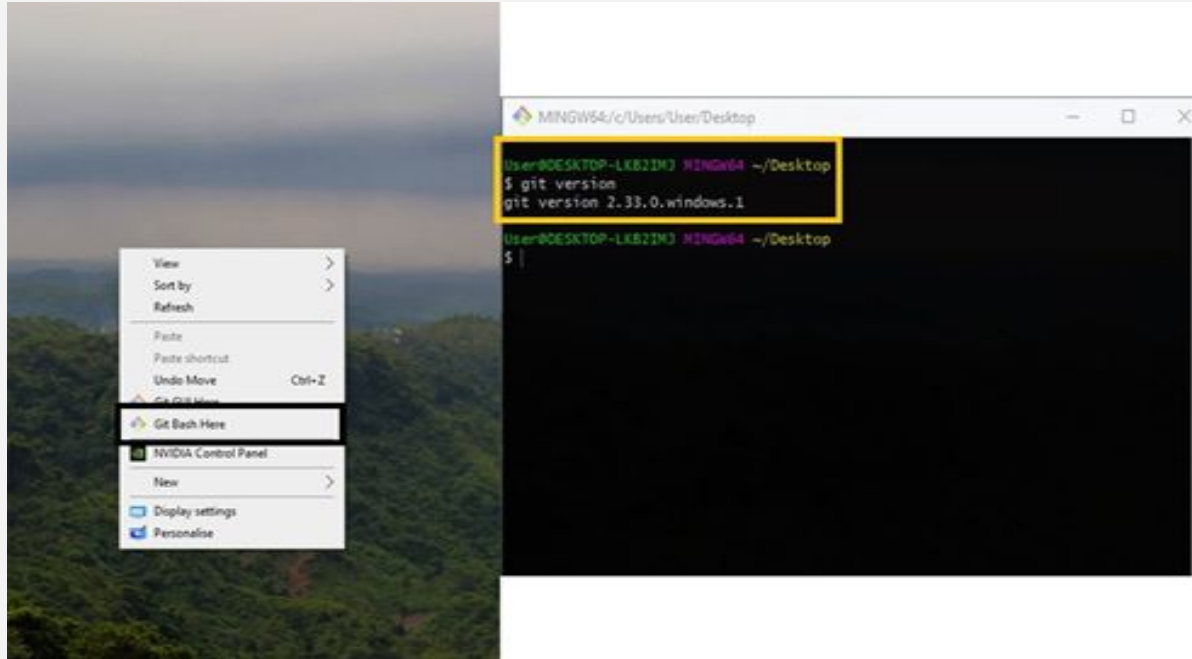
**Logos**  
Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.  
[View Logos --](#)

Latest source Release  
**2.33.0**  
Release Notes (2021-08-16)  
**Download for Windows**

Click this button if you are a windows user

## Step 1: Download Git On your System

- ❖ After Download the GIT on your system check that is it successfully download or not. Go to any directory and right click on your mouse there you will find a option **Git Bash Here**. Click on it. It will redirect you to a new git bash terminal. And here you need to put a command **git version**. If git bash has successfully setup on your system then it will show the version of the installed git. Look at the following picture below:

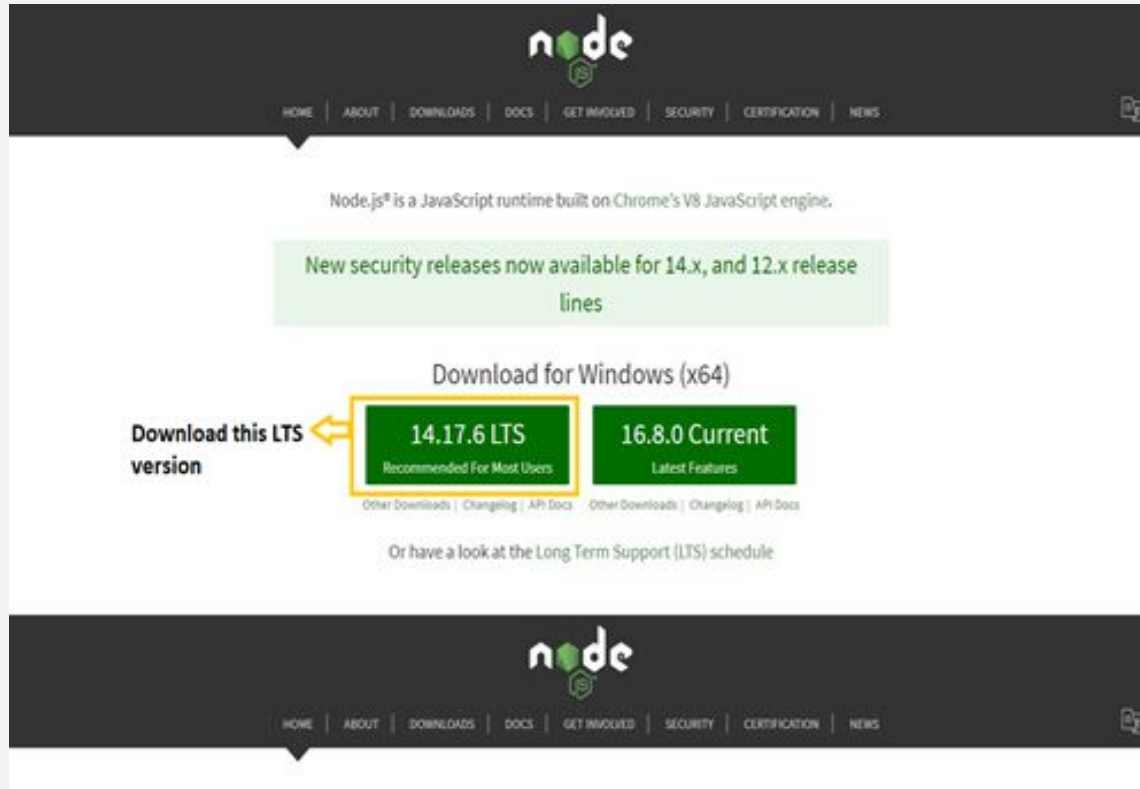


## **Step 1: Download Git On your System**

- ❖ If you are seeing these output then Congratulation!! You have successfully download the git in your system.

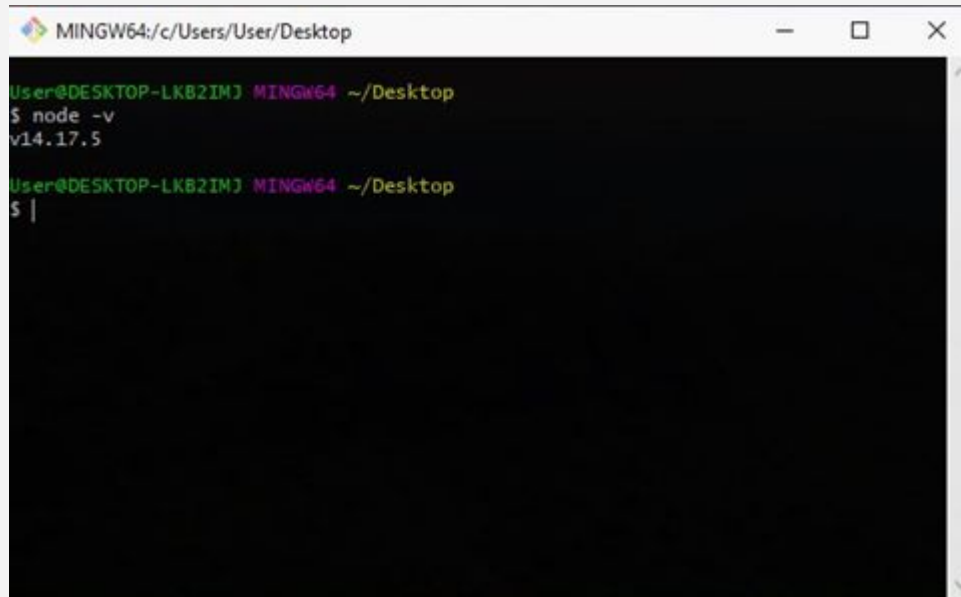
## Step 2: Download Node Js On your System

- ❖ Go to <https://nodejs.org/en/> and download the LTS version of Node Js. Here I will give the example for windows operating system.



## Step 2: Download Node Js On your System

- ❖ After Download the Node Js on your system check that is it successfully download or not. Open your bash terminal and put a command **node -v**. If node js has successfully setup on your system then it will show the version of the installed node js . Look at the following picture below:

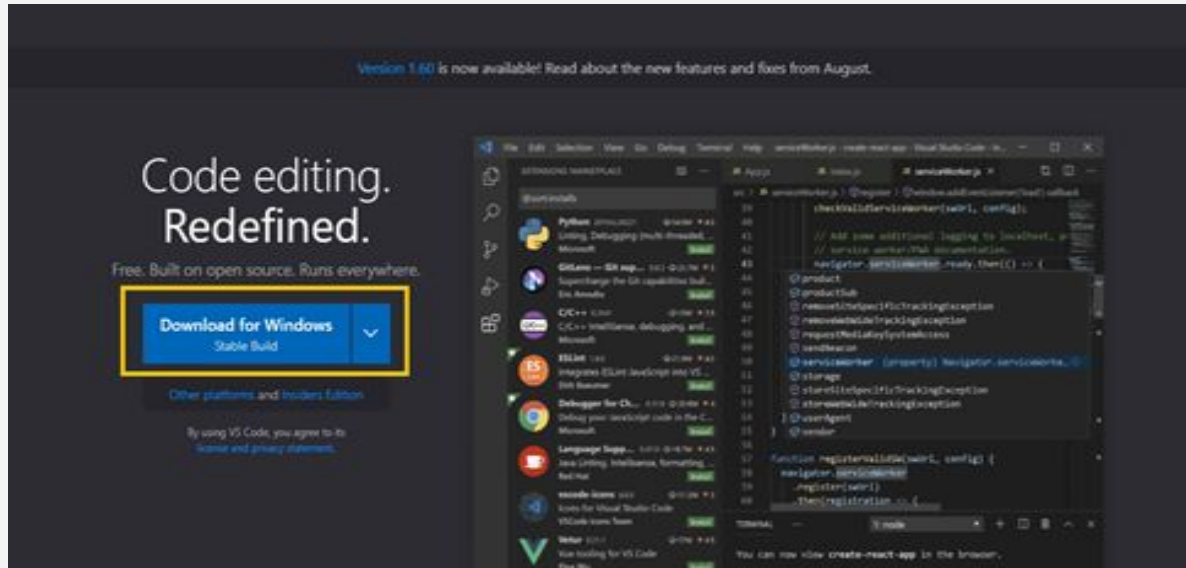


```
MINGW64:/c:/Users/User/Desktop
User@DESKTOP-LKB2IMJ MINGW64 ~/Desktop
$ node -v
v14.17.5
User@DESKTOP-LKB2IMJ MINGW64 ~/Desktop
$ |
```

If you are seeing these output then Congratulation!! You have successfully download the node js in your system.

## Step 3:Download Any IDE On your System (Here I will give VS code as a example)

- ❖ Go to <https://code.visualstudio.com/> and download the VS Code according to your operating system . Here I will give the example for windows operating system.





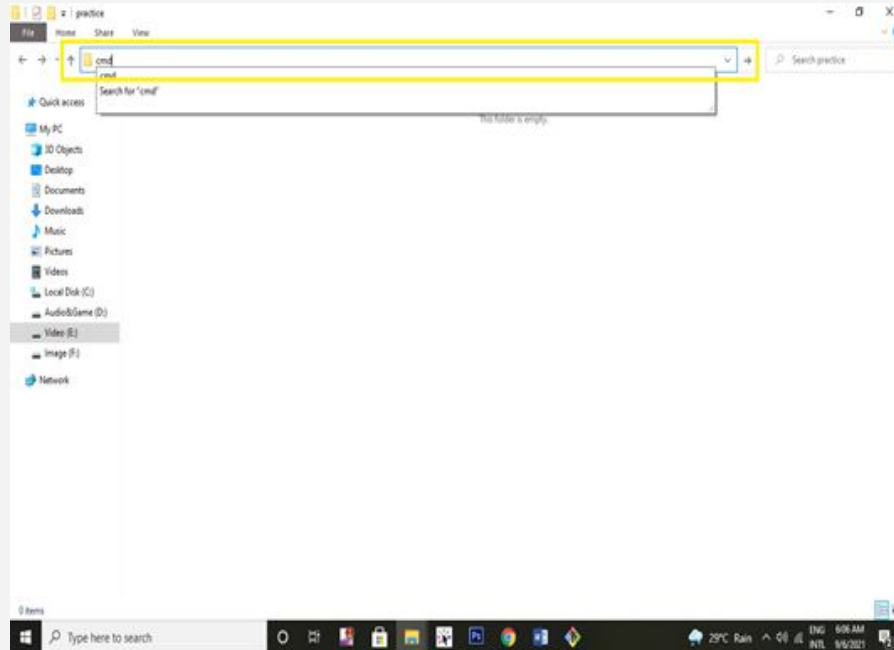
## **Step 3:Download Any IDE On your System (Here I will give VS code as a example)**

- ❖ After Download the VS Code on your there will show a logo of VS Code on your desktop.

**If you are seeing these output then Congratulation!! You have successfully download the VS Code in your system.**

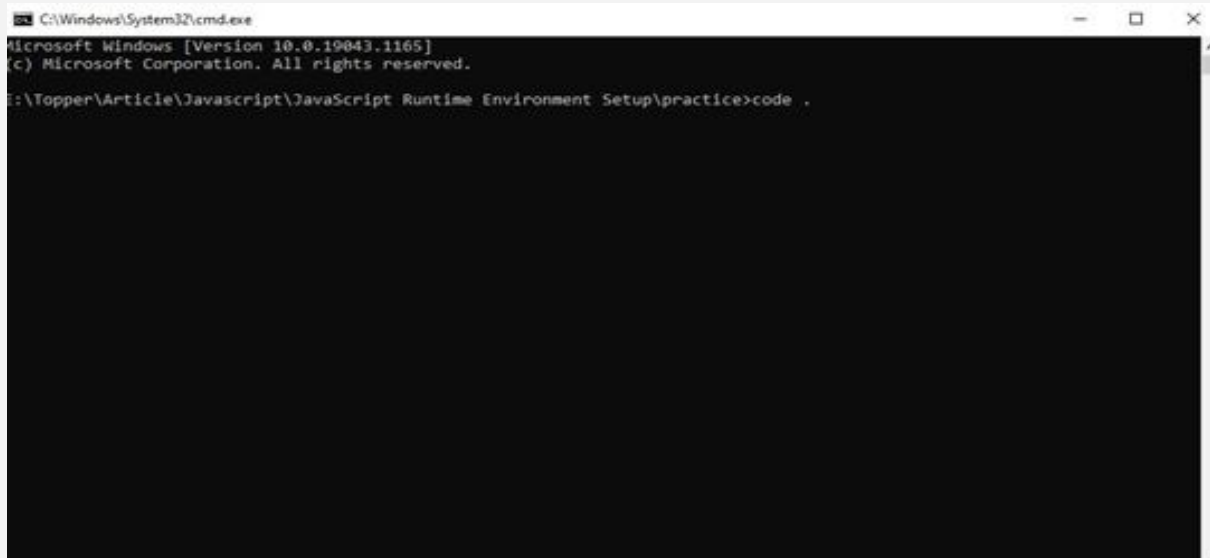
## Step 4: Create a new folder anywhere in your directory and open that folder with VS Code.

- ❖ Go to the upper directory part and remove all path and write a command (**cmd**) and press enter button.



## Step 4: Create a new folder anywhere in your directory and open that folder with VS Code.

- ❖ After pressing enter it will open the cmd terminal with the following directory and here you need to write a command (**code .**) and press enter it will redirect you to VS Code with the following directory. Look at the picture



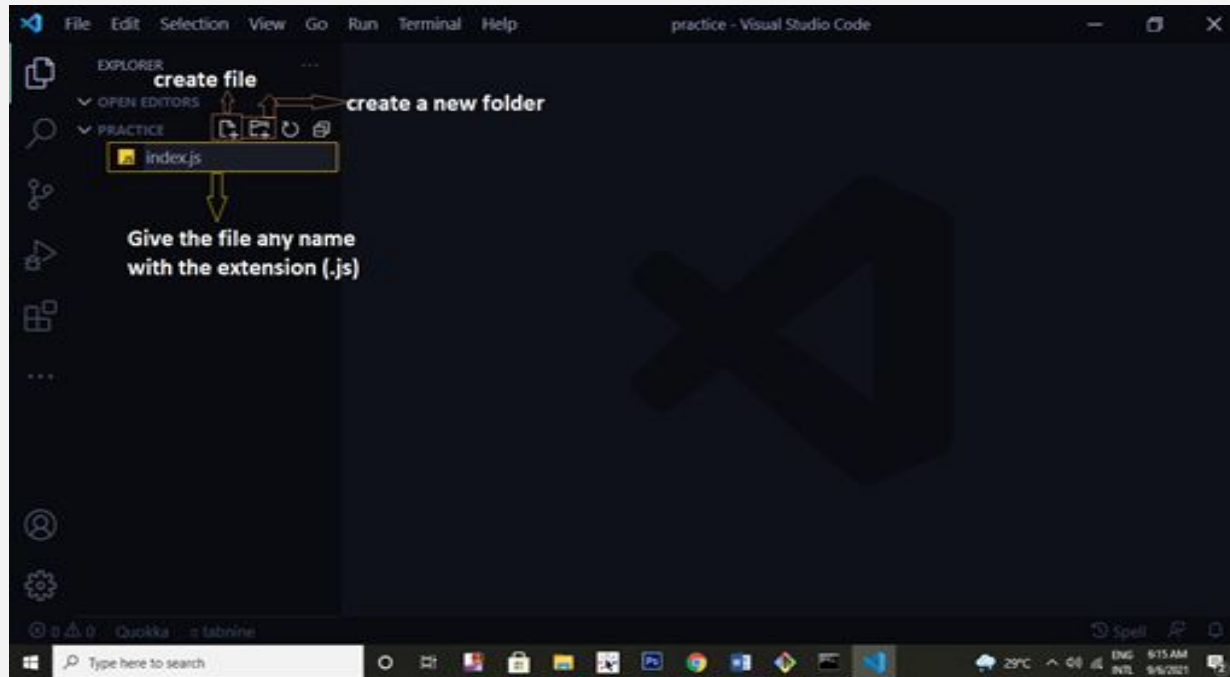
```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.1165]
(c) Microsoft Corporation. All rights reserved.

E:\Topper\Article\Javascript\JavaScript Runtime Environment Setup\practice>code .
```

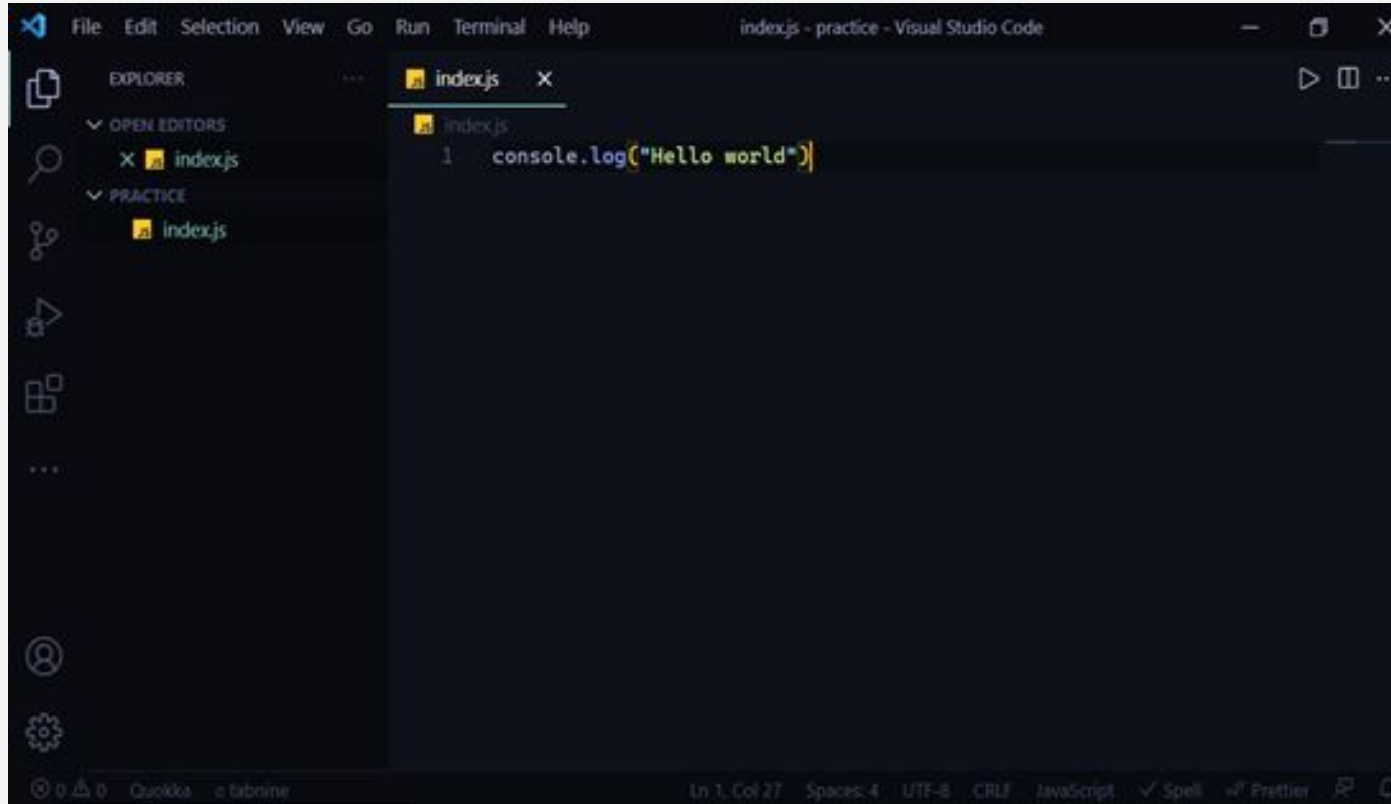
## Learn Some Linux command to access the directory

- ❖ **pwd** => It will show the current directory.
- ❖ **mkdir <folder name>** => It will create a new folder into the current directory.
- ❖ **cd <folder name>** => It will switch to a new folder.
- ❖ **touch <file name>** => It will create a new file into the current directory.
- ❖ **ls** => It will show all folder and file of the current directory

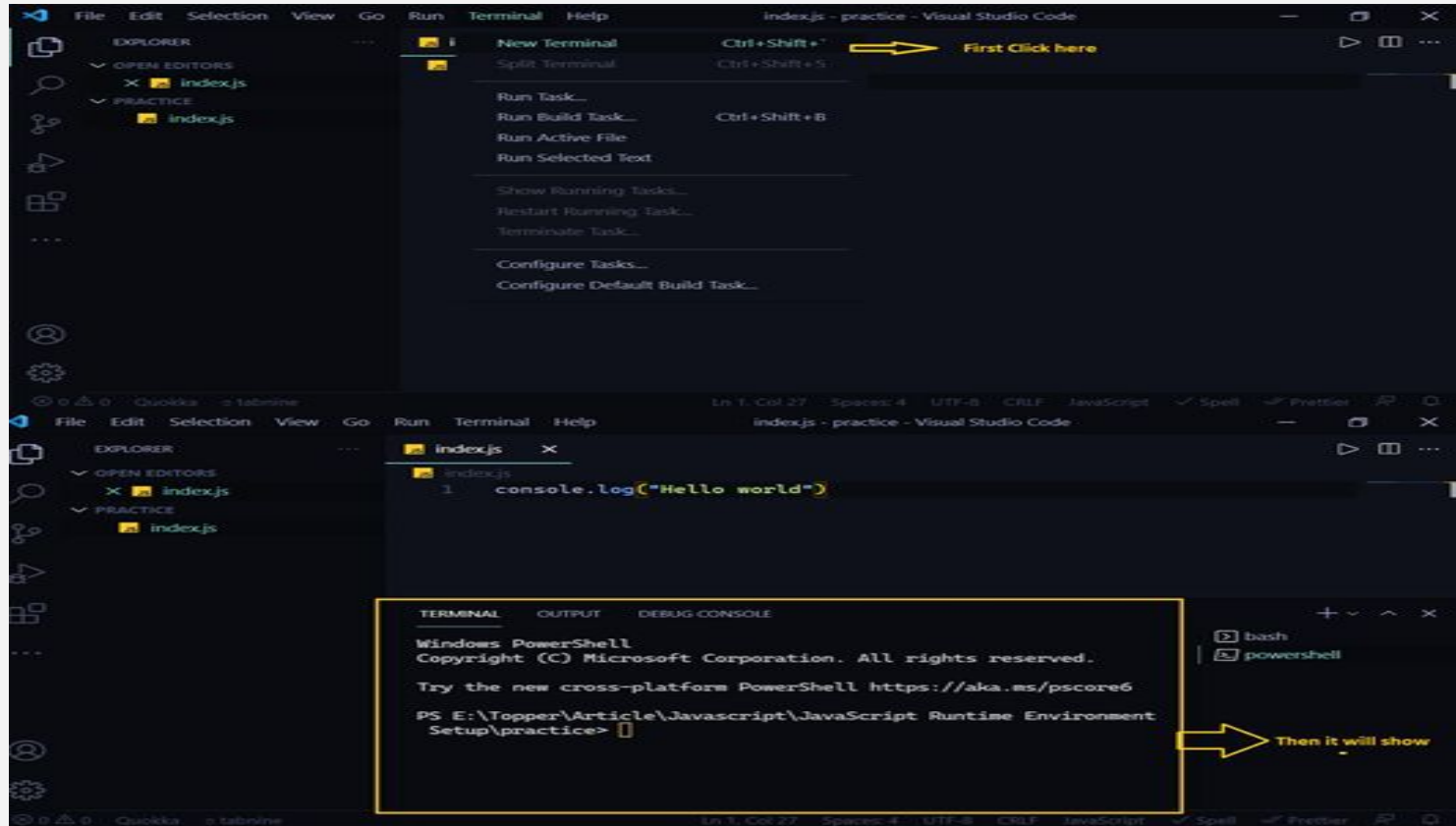
- ❖ After pressing enter it will open the vs code in the following directory. And here you need to create a file of any name with the extension **(.js)** because .js is the extension of javaScript file and press enter. It will redirect you to that file. Look at the picture below



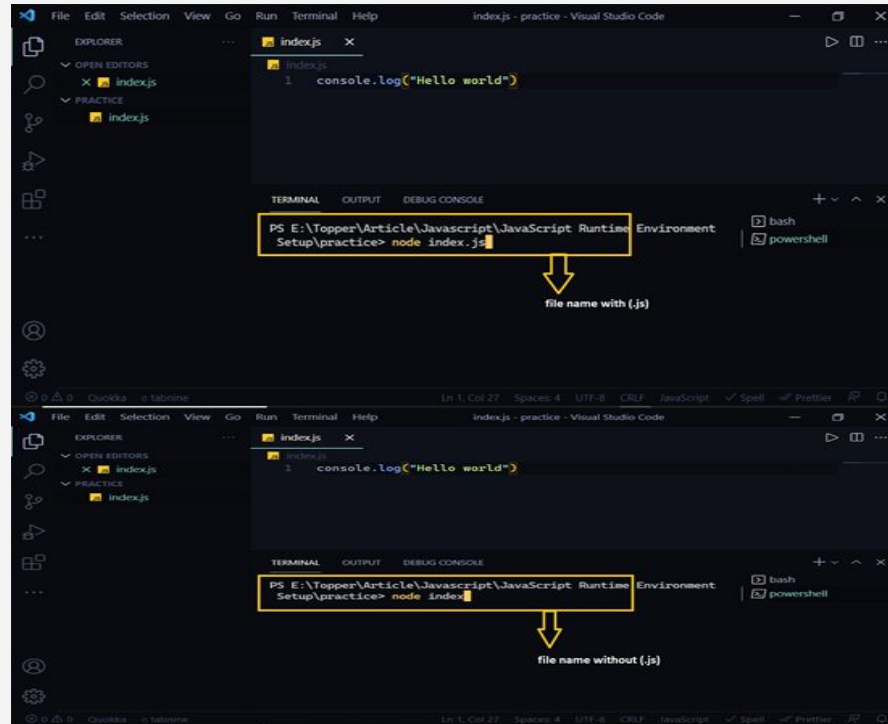
- ❖ Now write your first JavaScript code in that file.



- ❖ After that open the terminal in Vs Code or open the git bash.

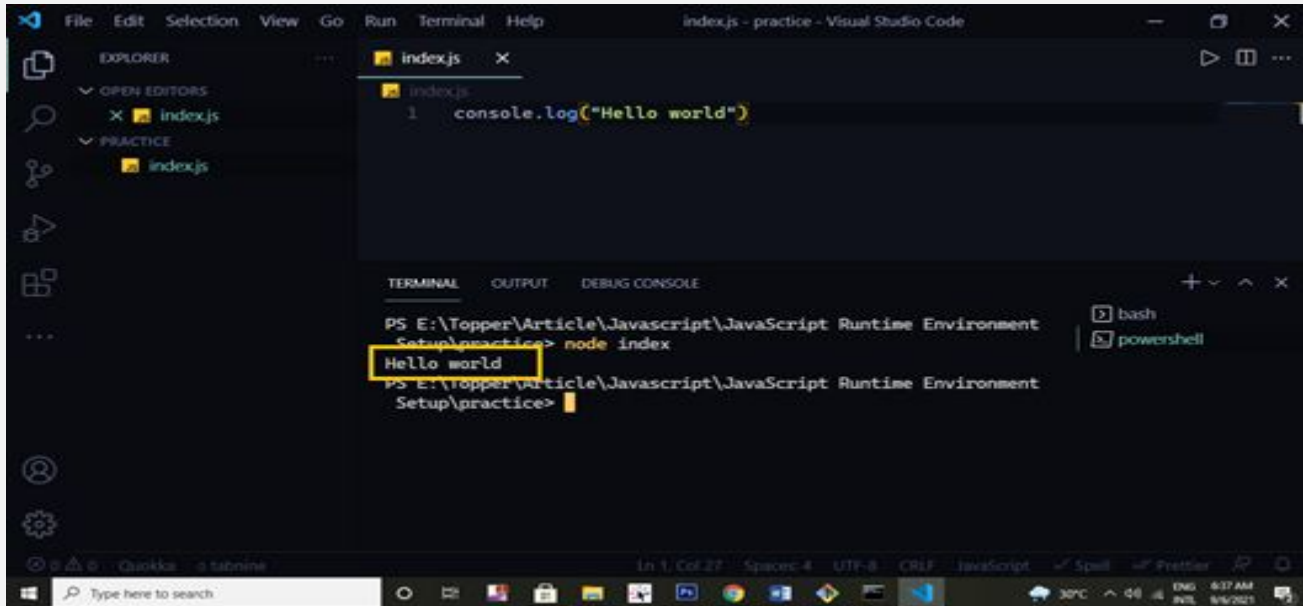


- ❖ Now put a command (**node fileName.js**) or (**node filename**) in the terminal. But before do the command check that if you are in the right directory or not. If all are okay then press enter. Look at the picture bellow





- ❖ If your code don't have any error then you will see the output (**Hello World**) in the terminal.



The screenshot displays the Visual Studio Code interface. The Explorer sidebar on the left shows a file named 'index.js' under a folder named 'PRACTICE'. The main editor window shows the content of 'index.js', which contains a single line of code: `console.log("Hello world")`. Below the editor, the TERMINAL panel is active, showing a command prompt window. The prompt is `PS E:\Topper\Article\Javascript\JavaScript Runtime Environment Setup\practice>`. The user has entered the command `node index`, and the output `Hello world` is displayed. The status bar at the bottom indicates the file is 'index.js' and the language is 'JavaScript'.

- ❖ If you see the output **Hello World** in your terminal like this one, Then Congratulation to you to run your first javaScript Code successfully.



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THANKS...