



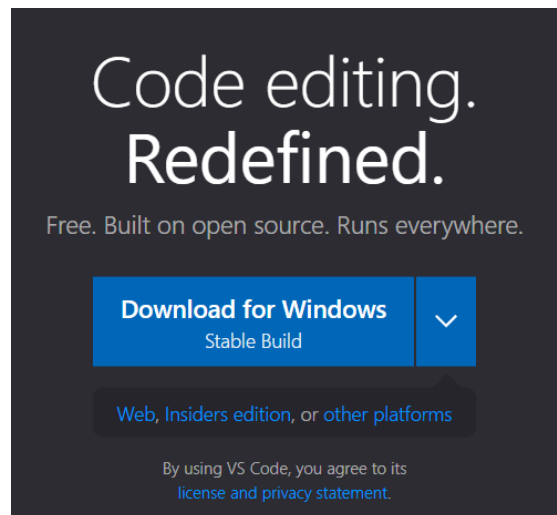
UNIT2 - ACTIVITIESTasca

2DAW CLIENT SIDE WEB DEVELOPMENT

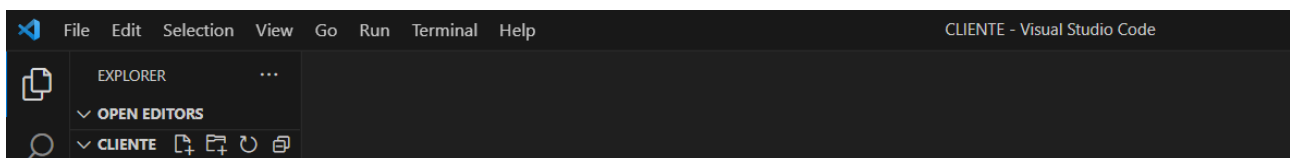
ACTIVITY 1 – VISUAL STUDIO CODE INSTALLATION

- Link for installing on Windows <https://code.visualstudio.com/>
- For Ubuntu: Open Ubuntu Software Center. Click the Show Applications button and open the Ubuntu Software Center app. Click the Search button, and type vscode in the search bar.

In my case, I have installed it on Windows, as it is the operating system I am currently using.



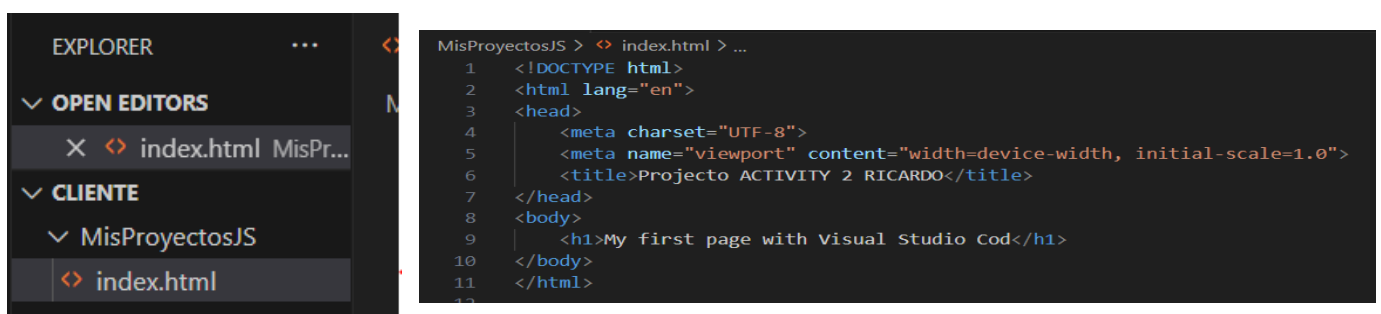
Here we can see how it starts correctly for me in Visual.



ACTIVITY 2 -- GETTING STARTED WITH VISUAL STUDIO CODE

- Create a folder on your system to contain a new project.
- Open the folder created from the Visual Studio Code app and create a new project.
- The project will be a web page with the title “se” or another one that you like more (index.html)
- Use an external CSS file that modifies the font and color of the text.

My folder containing my project is named "MyProjectJS," and inside the index.html, I will place the requested message.

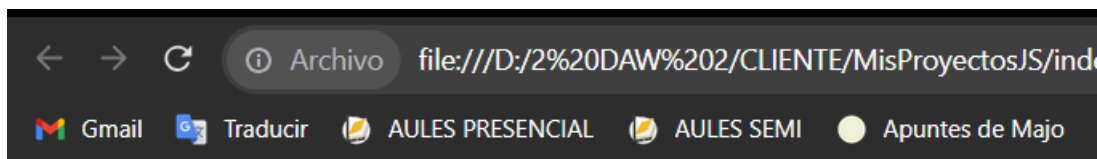


We apply the CSS.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="style.css">
  <title>Projecto ACTIVITY 2 RICARDO</title>
</head>
<body>
  <h1>My first page with Visual Studio Cod</h1>
</body>
</html>
```

```
MisProyectosJS > # style.css > h1
1  h1 {
2    color: red;
3    font-size: large;
4    font-family: 'Courier New', Courier, monospace;
5  }
```

Result::

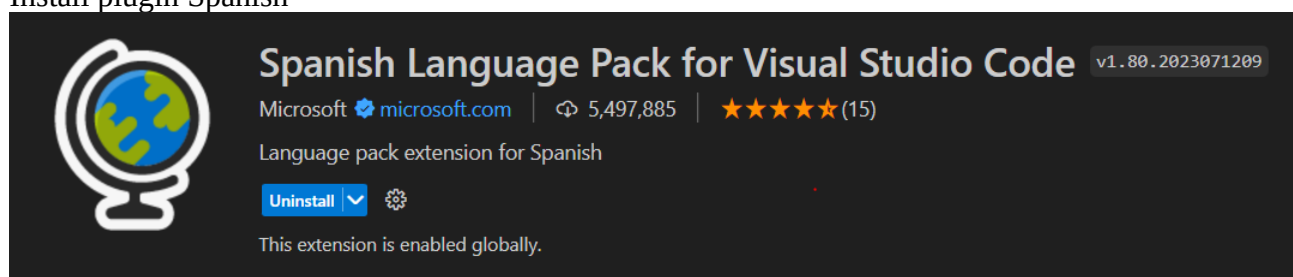


My first page with Visual Studio Cod

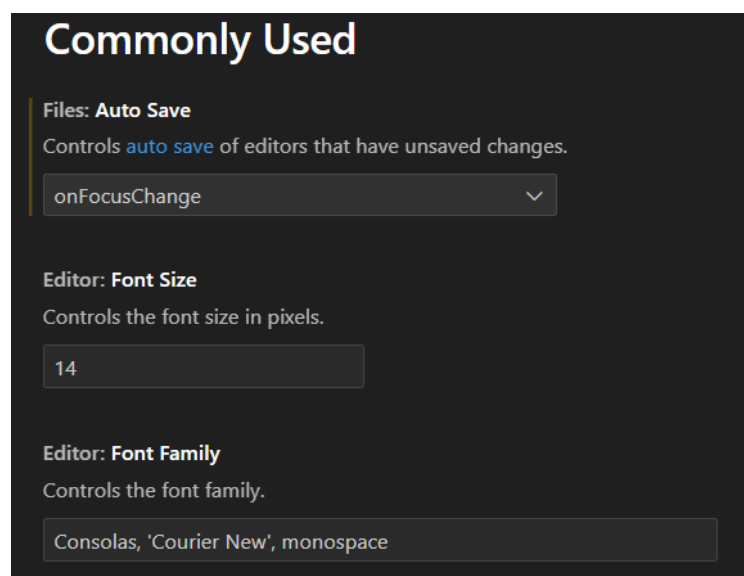
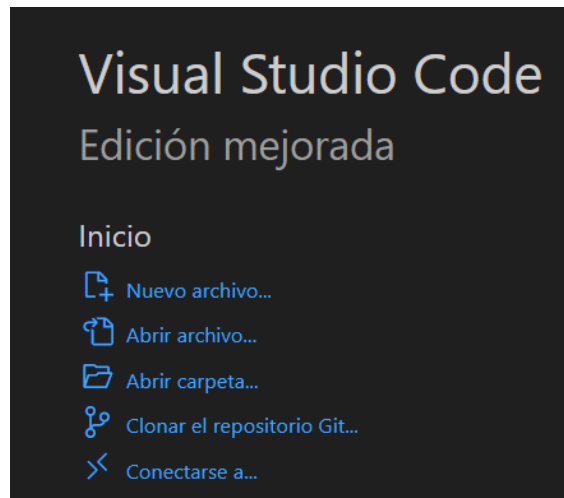
ACTIVITY 3 – SETTING UP VISUAL STUDIO CODE

- Change the language of the application to Spanish using the extensions button , but change it back to English.
- Open File/ Preferences/ Settings option to modify for the Editor, the font family and size.
- On File/ Preferences change the Theme Color and if you like, Icon Theme or Product Icons

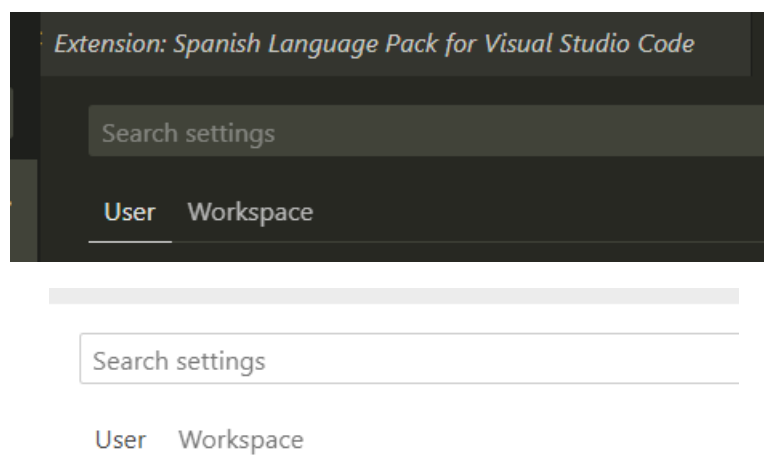
Install plugin Spanish



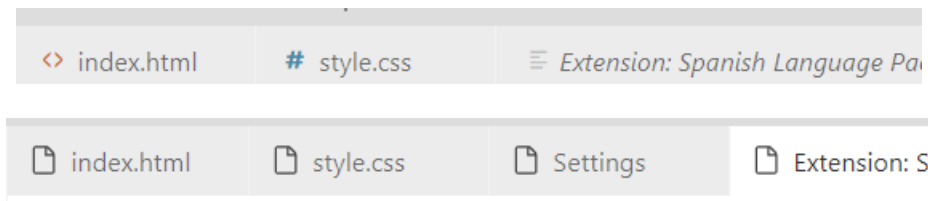
Proof that the language has been changed for me:



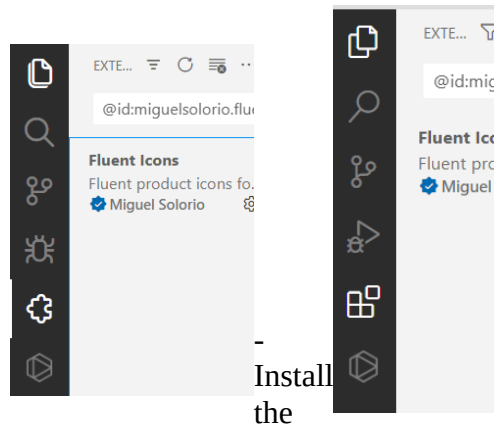
Color theme:



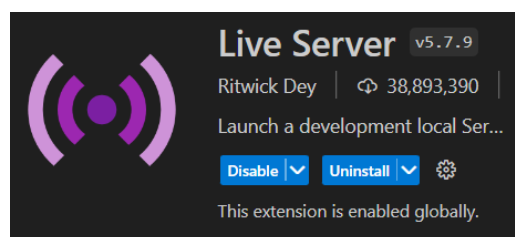
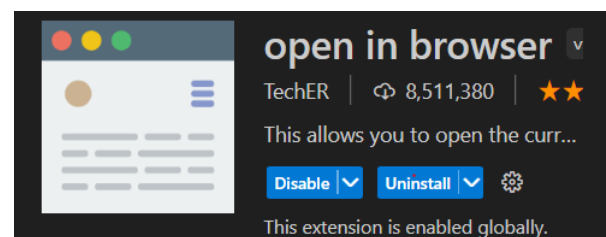
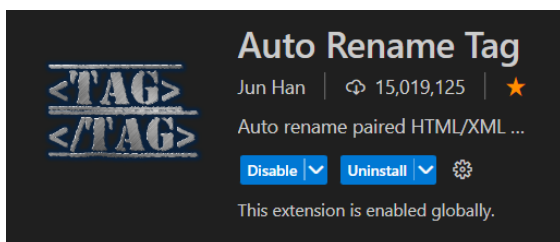
Icon:



Product Icon:



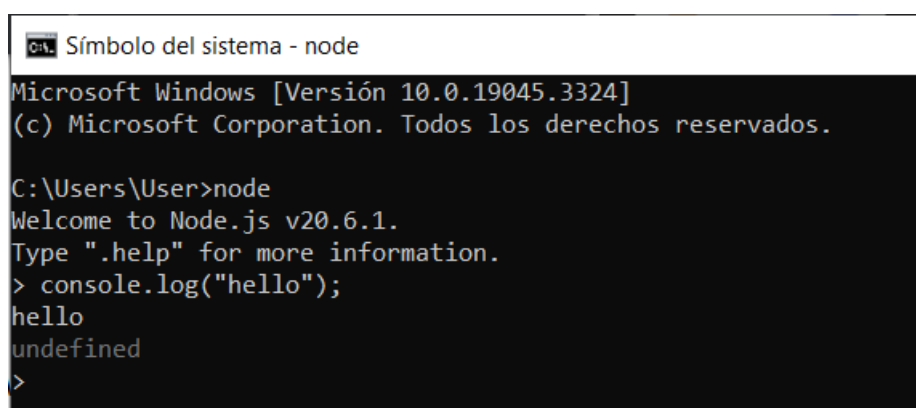
Install the following extensions and explain what they are used for: Autor Rename Tag, Open in Brower, Live server (Ritwick Dey).



ACTIVITY 4 – NODE.JS INSTALLATION AND CHECK IT WORKS

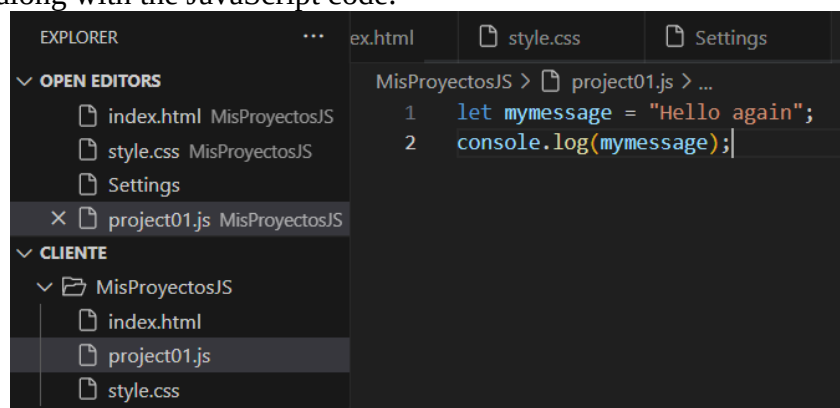
- Link for Windows : <https://nodejs.org/>
- On Ubuntu, execute:
 - o `sudo apt update`
 - o `sudo apt install nodejs`
- To check if it is installed, write from a command line (cmd on Windows, terminal on Ubuntu):
- To exit from the node environment click two times Ctrl + C.
- On the cmd/Terminal command line write `$ code project01.js`.

"I have installed it on WINDOWS, installation test:



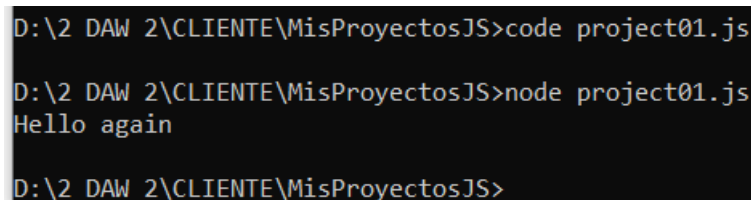
```
C:\Users\User>node
Welcome to Node.js v20.6.1.
Type ".help" for more information.
> console.log("hello");
hello
undefined
>
```

We create a file along with the JavaScript code:



```
MisProyectosJS > project01.js > ...
1 let mymessage = "Hello again";
2 console.log(mymessage);
```

With 'code,' you open the JavaScript file, and we can view and modify the code, and 'node' takes care of executing the code.



```
D:\2 DAW 2\CLIENTE\MisProyectosJS>code project01.js

D:\2 DAW 2\CLIENTE\MisProyectosJS>node project01.js
Hello again

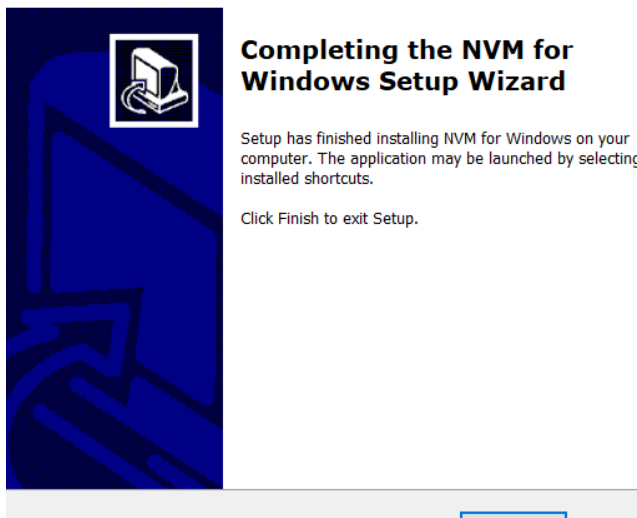
D:\2 DAW 2\CLIENTE\MisProyectosJS>
```

ACTIVITY 5 – NVM INSTALLATION

- Install nvm
- Install current LTS node.js through nvm
- Install also the last 4 version using nvm command.
- Install last node.js versión

My installation will be from Windows. To do this, you need to download 'nvm-setup.zip,' unzip it, and run the exe. Then, from the CMD, we install the recommended version '8.15.' Using 'nvm use 8.15.0,' I use this version, and with 'list,' I check which versions I have installed on my device.

Setup - NVM for Windows 1.1.11



```
Símbolo del sistema
Microsoft Windows [Versión 10.0.19045.3448]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\User>nvm install 8.15.0
Downloading node.js version 8.15.0 (64-bit)...
Complete
Creating C:\Users\User\AppData\Roaming\nvm\temp

Downloading npm version 6.4.1... Complete
Installing npm v6.4.1...

Installation complete. If you want to use this version, type

nvm use 8.15.0

C:\Users\User>nvm list

* 20.6.1 (Currently using 64-bit executable)
  8.15.0

C:\Users\User>nvm use 8.15.0
Now using node v8.15.0 (64-bit)

C:\Users\User>
```

We are going to install the current version of Node with nvm:
In this case, the most recent LTS version is 18.17.1

```
C:\Users\User>nvm list available
```

CURRENT	LTS	OLD STABLE	OLD UNSTABLE
20.6.1	18.17.1	0.12.18	0.11.16
20.6.0	18.17.0	0.12.17	0.11.15
20.5.1	18.16.1	0.12.16	0.11.14
20.5.0	18.16.0	0.12.15	0.11.13
20.4.0	18.15.0	0.12.14	0.11.12
20.3.1	18.14.2	0.12.13	0.11.11
20.3.0	18.14.1	0.12.12	0.11.10
20.2.0	18.14.0	0.12.11	0.11.9
20.1.0	18.13.0	0.12.10	0.11.8
20.0.0	18.12.1	0.12.9	0.11.7
19.9.0	18.12.0	0.12.8	0.11.6
19.8.1	16.20.2	0.12.7	0.11.5
19.8.0	16.20.1	0.12.6	0.11.4
19.7.0	16.20.0	0.12.5	0.11.3
19.6.1	16.19.1	0.12.4	0.11.2
19.6.0	16.19.0	0.12.3	0.11.1
19.5.0	16.18.1	0.12.2	0.11.0
19.4.0	16.18.0	0.12.1	0.9.12
19.3.0	16.17.1	0.12.0	0.9.11
19.2.0	16.17.0	0.10.48	0.9.10

This is a partial list. For a complete list, visit <https://nodejs.org/en/download/releases>

So I proceed to download it:

```
C:\Users\User>nvm install 18.17.1
Downloading node.js version 18.17.1 (64-bit)...
Extracting node and npm...
Complete
npm v9.6.7 installed successfully.

Installation complete. If you want to use this version, type

nvm use 18.17.1
```


I proceed to install the latest four versions using the 'nvm' command in Windows:

```
C:\Users\User>nvm install 20.5.0
Downloading node.js version 20.5.0 (64-bit)...
Extracting node and npm...
Complete
npm v9.8.0 installed successfully.

Installation complete. If you want to use this version, type
nvm use 20.5.0
```

```
C:\Users\User>nvm install 20.5.1
Downloading node.js version 20.5.1 (64-bit)...
Extracting node and npm...
Complete
npm v9.8.0 installed successfully.

Installation complete. If you want to use this version, type
nvm use 20.5.1
```

```
C:\Users\User>nvm install 20.6.0
Downloading node.js version 20.6.0 (64-bit)...
Extracting node and npm...
Complete
npm v9.8.1 installed successfully.

Installation complete. If you want to use this version, type
nvm use 20.6.0
```

```
C:\Users\User>nvm install 20.6.1
Version 20.6.1 is already installed.
```

We see that the four versions are installed, and we also see that the latest version, which is 20.6.1, is installed.

```
C:\Users\User>nvm list
20.6.1
20.6.0
20.5.1
20.5.0
18.17.1
* 8.15.0 (Currently using 64-bit executable)
```


ACTIVITY 6 – INSTALLING GLOBAL PACKAGES WITH NPM

- Install globally yeoman package using npm
- Check the package works properly

We install Yeoman globally with npm:

```
C:\Users\User>npm install -g yo
npm WARN deprecated debuglog@1.0.1: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info.
npm WARN deprecated readdir-scoped-modules@1.1.0: This functionality has been moved to @npmcli/fs
npm WARN deprecated @npmcli/move-file@2.0.1: This functionality has been moved to @npmcli/fs
npm WARN deprecated @npmcli/move-file@1.1.2: This functionality has been moved to @npmcli/fs

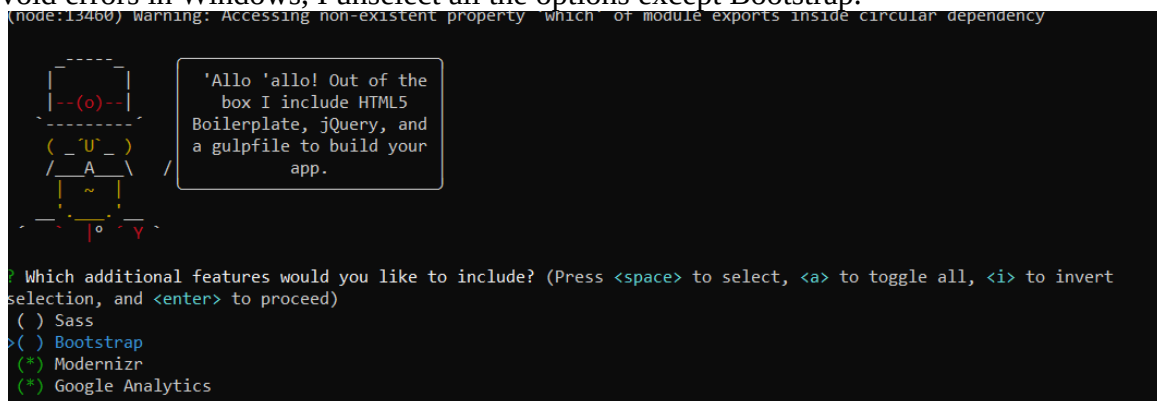
added 748 packages in 2m

C:\Users\User>
C:\Users\User>npm install -g generator-webapp
npm WARN deprecated source-map-url@0.4.1: See https://github.com/lydell/source-map-url#deprecated
npm WARN deprecated unix@0.1.0: Please see https://github.com/lydell/unix#deprecated
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated source-map-resolve@0.5.3: See https://github.com/lydell/source-map-resolve#deprecated

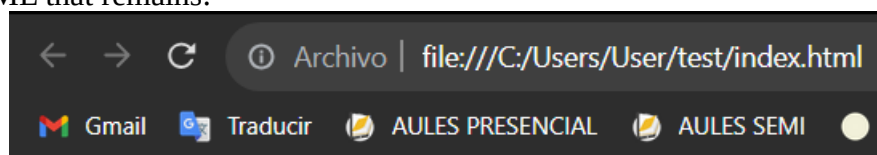
added 565 packages in 48s
```

Now I navigate to the directory I created to use the command in 'Documents,' and inside it is 'sample-directory.'

To avoid errors in Windows, I unselect all the options except Bootstrap.



This is the HTML that remains:



Give it some context

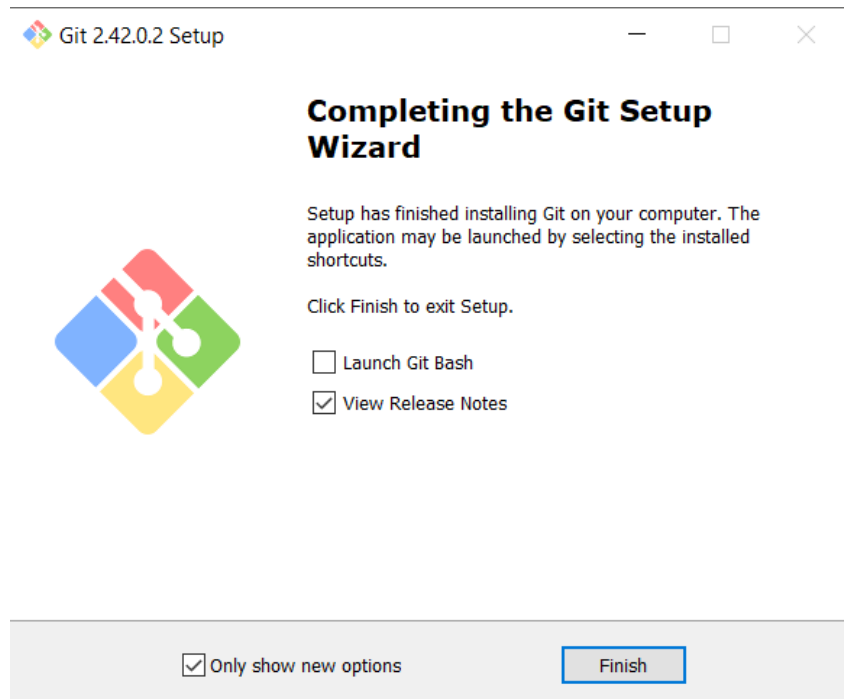
maybe a bit more context here

✓ should run here few assertions

ACTIVITY 7 – GIT INSTALLATION

- Install Git
- Check command git works on the command line

Since I am on the Windows operating system, I will download Git manually from the official website.



Start no problem

We log in to Git and do it within the created directory. I have previously created the 'sample-directory' folder."

```
Directorio de C:\Users\User\Documents\sample-directory

18/09/2023  18:45    <DIR>        .
18/09/2023  18:45    <DIR>        ..
               0 archivos            0 bytes
               2 dirs  155.824.758.784 bytes libres

C:\Users\User\Documents\sample-directory>git init
Initialized empty Git repository in C:/Users/User/Documents/sample-directory/.git/

C:\Users\User\Documents\sample-directory>git config --global user.name "RicardoMC27"

C:\Users\User\Documents\sample-directory>git config --global user.email "ricardomascarell27@gmail.com"

C:\Users\User\Documents\sample-directory>dir /a .git
El volumen de la unidad C no tiene etiqueta.
El número de serie del volumen es: FEED-F8CA

Directorio de C:\Users\User\Documents\sample-directory\.git

18/09/2023  19:21    <DIR>        .
18/09/2023  19:21    <DIR>        ..
               130 config
               73 description
               23 HEAD
               hooks
               info
               objects
               refs
                 3 archivos            226 bytes
                 6 dirs  155.845.328.896 bytes libres

C:\Users\User\Documents\sample-directory>
```

ACTIVITY 8 – CREATING VERSIONS WITH GIT


- Create a new folder named activity8
- Prepare the folder to be used with Git. (Execute \$ git init //being located in the folder or on Git from the Command Palette)

I create a new folder called 'exercise8' and copy the content from the previous folder into it, then we start.

```
C:\Users\User\Documents>cd ejercicio 8

C:\Users\User\Documents\ejercicio 8>git init
Initialized empty Git repository in C:/Users/User/Documents/ejercicio 8/.git/
```

I perform an 'add,' and it's saved. I modify the file, and I continue editing.

 Símbolo del sistema

```
C:\Users\User\Documents>cd ejercicio 8

C:\Users\User\Documents\ejercicio 8>git init
Initialized empty Git repository in C:/Users/User/Documents/ejercicio 8/.git/

C:\Users\User\Documents\ejercicio 8>git add .

C:\Users\User\Documents\ejercicio 8>git commit -m "Practical1"
[master (root-commit) 17acc8f] Practical1
 2 files changed, 13 insertions(+)
 create mode 100644 index.html
 create mode 100644 style.css

C:\Users\User\Documents\ejercicio 8>git commit -m "Practical 2"
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\User\Documents\ejercicio 8>git commit -m "Practical 2"
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\User\Documents\ejercicio 8>git add .
```

```

index.html X
index.html > html > body > h1
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10  <h1>Hola mundoook</h1>
11 </body>
12 </html>

```

Here we can see from the log that I have multiple commits, and I decide to load the second one to test it.

```

C:\Users\User\Documents\ejercicio 8>git add .

C:\Users\User\Documents\ejercicio 8>git commit -m "Practical 2"
[master f5f80ae] Practical 2
1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\User\Documents\ejercicio 8>git log
commit f5f80aecd586105c772962d6750c921fcb5aa4a9 (HEAD -> master)
Author: RicardoMC27 <ricardomascarell127@gmail.com>
Date: Mon Sep 18 19:42:33 2023 +0200

    Practical 2

commit 17acc8f367f6e94a68939c8e0451712a8a5537ae
Author: RicardoMC27 <ricardomascarell127@gmail.com>
Date: Mon Sep 18 19:39:30 2023 +0200

    Practical1

C:\Users\User\Documents\ejercicio 8>git cheackout 17acc8f367f6e94a68939c8e0451712a8a5537ae
git: 'cheackout' is not a git command. See 'git --help'.

The most similar command is
    checkout

C:\Users\User\Documents\ejercicio 8>git checkout 17acc8f367f6e94a68939c8e0451712a8a5537ae
Note: switching to '17acc8f367f6e94a68939c8e0451712a8a5537ae'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

    git switch -c <new-branch-name>

Or undo this operation with:

```

Let's see the current state of the repository with 'git status,' and we can see that the one I mentioned earlier is there.

```
Turn off this advice by setting config variable advice.detachedHead to false

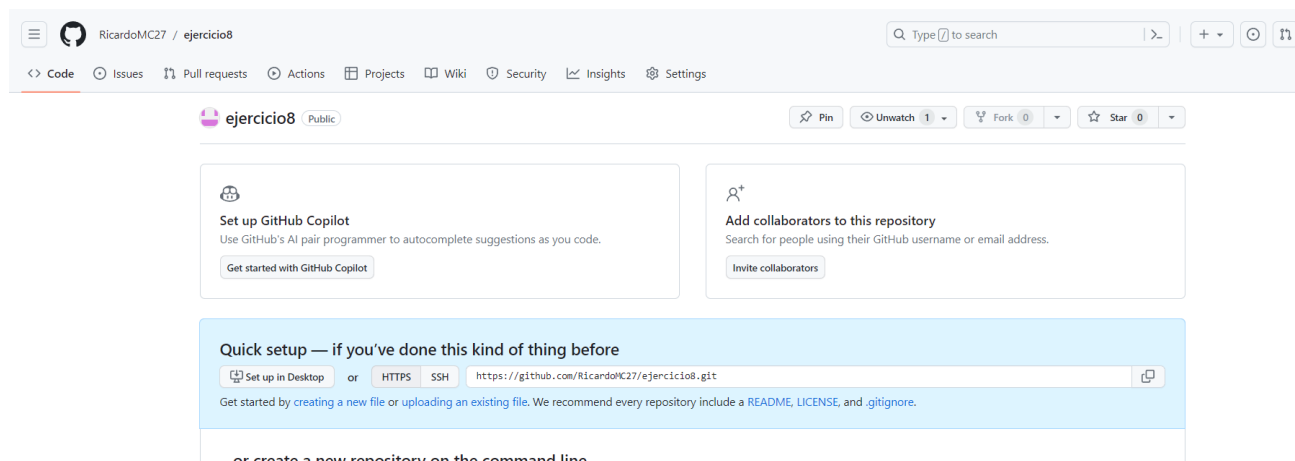
HEAD is now at 17acc8f Practica1

C:\Users\User\Documents\ejercicio 8>git status
HEAD detached at 17acc8f
nothing to commit, working tree clean

C:\Users\User\Documents\ejercicio 8>
```

ACTIVITY 9 – UPLOAD PROJECT TO GITHUB

- Sign up on GitHub <https://github.com/>
- Upload the Activity8 project to a new repository in your Github account.



We can see that the repositories have been uploaded correctly.

