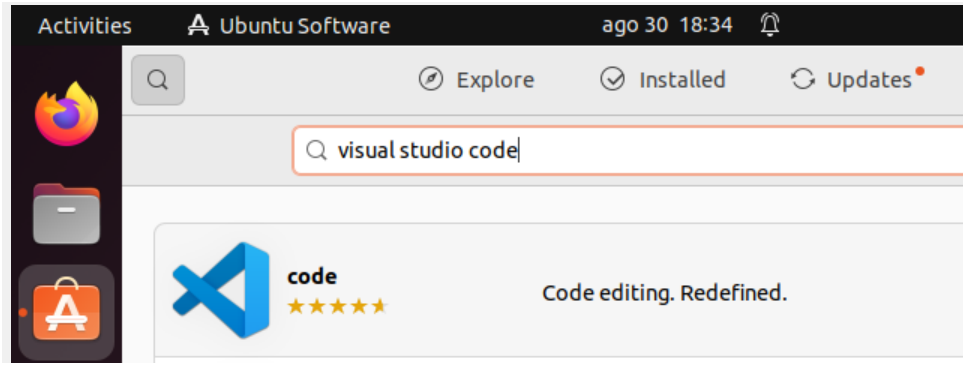
C/ Literat Azorín, 1 46702 – GANDIA
Tfno. 962829430 – Fax. 962829431
Codi: 46004221 – CIF: Q-9655627-I
46004221@edu.gva.es
http://iesmariaenriquez.com

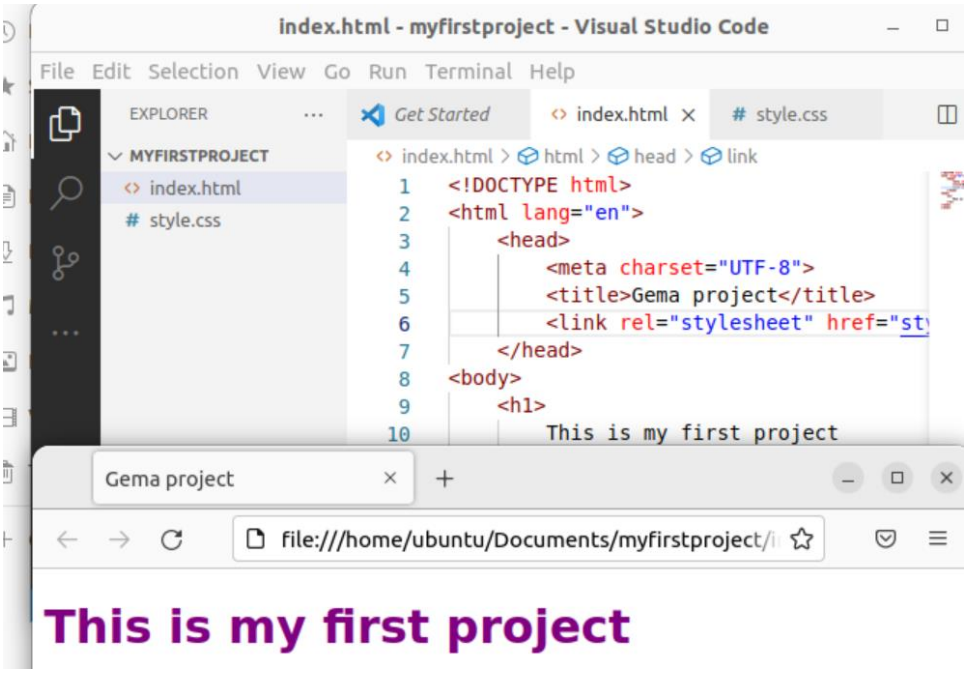
## ❑ ACTIVITY 1 – VISUAL STUDIO CODE INSTALLATION

- 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.




## ❑ 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 “My first page with Visual Studio Code” or another one that you like more (index.html)
- Use an external CSS file that modifies the font and color of the text.

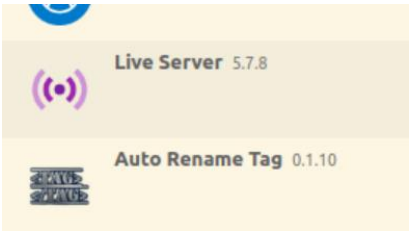



## ❑ ACTIVITY 3 – SETTING UP VISUAL STUDIO CODE

C/ Literat Azorín, 1 46702 – GANDIA
Tfno. 962829430 – Fax. 962829431
Codi: 46004221 – CIF: Q-9655627-I
46004221@edu.gva.es
http://iesmariaenriquez.com

- 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 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:
  - sudo apt update
  - sudo apt install nodejs
- To check if it is installed, write from a command line (**cmd** on Windows, terminal on **Ubuntu**):

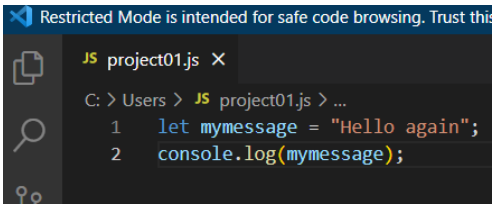
```
C:\Users>node
Welcome to Node.js v14.17.3.
Type ".help" for more information.
> console.log("Hello");
Hello
undefined
>
```

- To exit from the node environment click two times Ctrl + C.
- On the **cmd/Terminal** command line write **$ code project01.js**.

  Visual Studio Code will be opened with a new file project01.js ready to write the code.

  Write the following code or something similar and save the file:

C/ Literat Azorín, 1 46702 – GANDIA
Tfno. 962829430 – Fax. 962829431
Codi: 46004221 – CIF: Q-9655627-I
46004221@edu.gva.es
http://iesmariaenriquez.com




Execute on **cmd/Terminal**:

```
C:\Users>node project01.js
Hello again
```

- ❑ **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 version

Uninstall all node.js versions you installed before.

To install NVM on your Ubuntu 22.04 machine, visit the project's GitHub page (https://github.com/nvm-sh/nvm). Copy the curl command from the README file that displays on the main page. This will get you the most recent version of the installation script.

**$ sudo apt install curl**

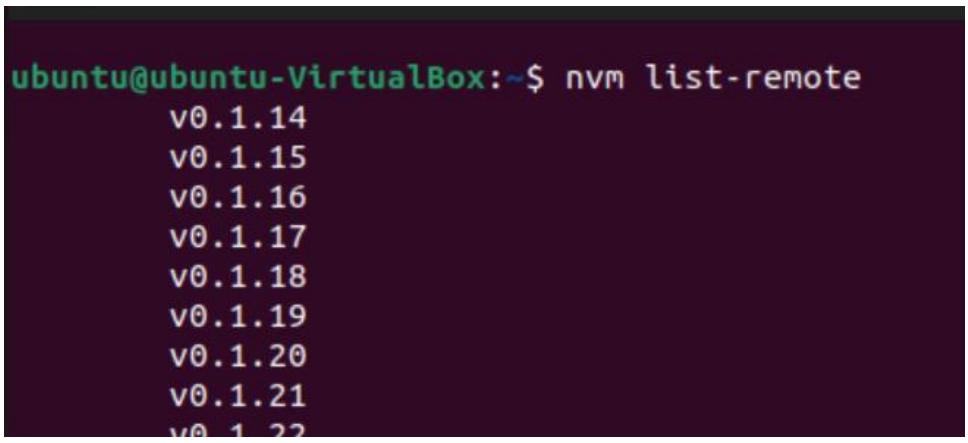
It would be something like:

**$ curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.1/install.sh | bash**

This will install the nvm script to your user account. To use it, you must first source your .bashrc file, otherwise if you write nvm, you will get the message "nvm: command not found"

**$ source ~/.bashrc**

Once installed, let's see if it works. Write the command:

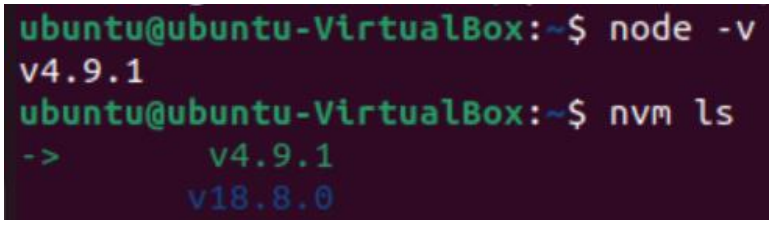


You can install a version of Node by typing any of the release versions you see. For instance, to get version v16.14.0 (another LTS release), you can type:

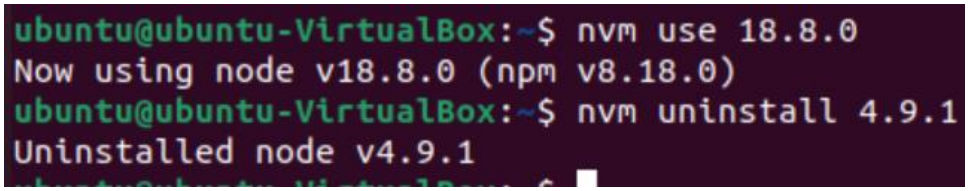
**$ nvm install v16.14.0**

For the last version of node, and also version 4:


Current node version, and nvm versions installed.




Change to 18.18.0 nvm version and uninstall 4.9.1 version:




- ❑ **ACTIVITY 6 – INSTALLING GLOBAL PACKAGES WITH NPM**
- Install globally yeoman package using npm
- Check the package works properly

Yeoman helps you to kickstart new projects, prescribing best practices and tools to help you stay productive. To do so, we provide a generator ecosystem. A generator is basically a plugin that can be run with the `**yo**` command to scaffold complete projects or useful parts.

Install globally by writing: **$ npm install –g yo**

Yeoman package requires other packages named generators. We will install webapp generator to create a template of an HTML application.

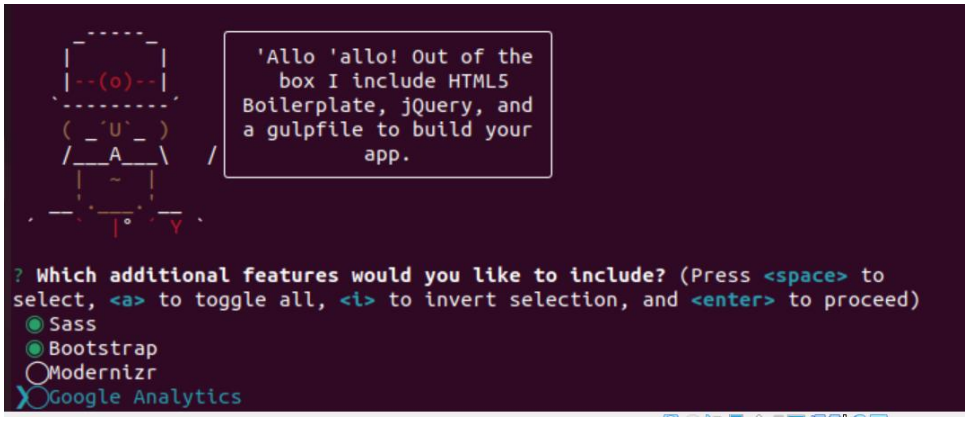
**$ npm install –g generator-webapp**

Now, we will create a folder where the template for the application will be created. Write the following command from that folder

C/ Literat Azorín, 1 46702 – GANDIA
Tfno. 962829430 – Fax. 962829431
Codi: 46004221 – CIF: Q-9655627-I
46004221@edu.gva.es
http://iesmariaenriquez.com

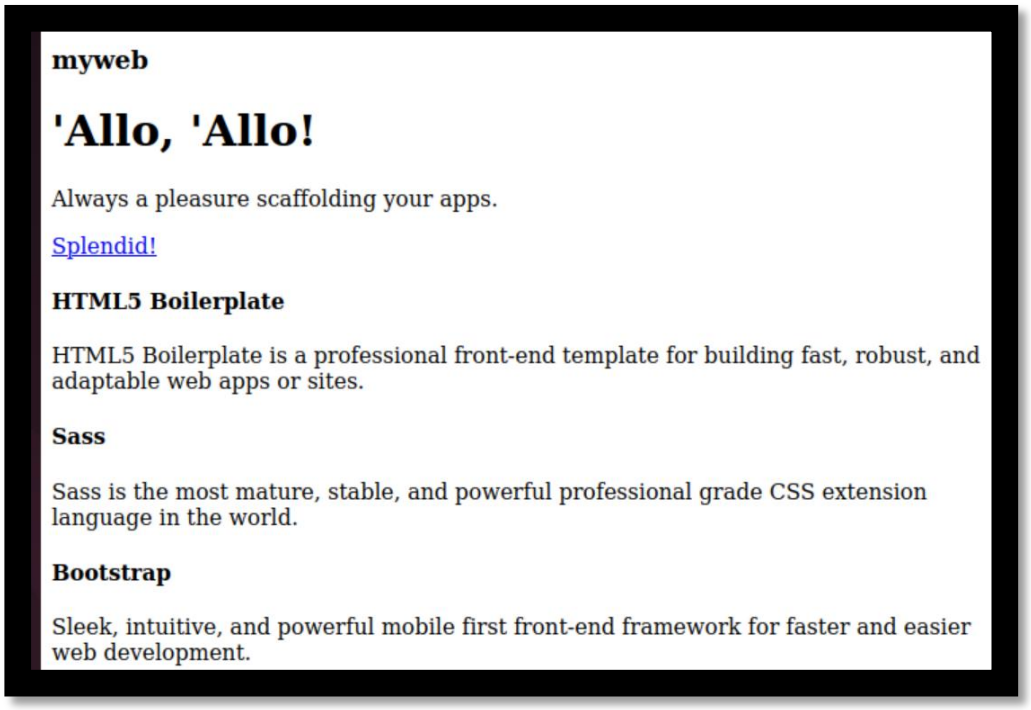
**$ yo webapp**

Choose the options selected in the image




Also ask for the type of application to be checked with the Mocha component (Choose the first option)

Finally, folders and files for our application will be created.




- ❑ **ACTIVITY 7 – GIT INSTALLATION**
- Install Git
- Check command git works on the command line

Link for Windows installation: https://git-scm.com/

On Ubuntu write: **$ sudo apt install git –y**

C/ Literat Azorín, 1 46702 – GANDIA
Tfno. 962829430 – Fax. 962829431
Codi: 46004221 – CIF: Q-9655627-I
46004221@edu.gva.es
http://iesmariaenriquez.com

In order to make a user account on Git you have to provide a username and an email and this can be done using the following commands.

**$ git config --global user.name "INSERT YOUR NAME"**

**$ git config --global user.email "INSERT YOUR EMAIL"**

Now the account has been set up, we will now generate a repository.

**$ mkdir sample-directory -p**

**$ cd sample-directory**

After navigating to the directory, use the initialization command to create a hidden git directory that will store history, configuration, etc

```
ubuntu@ubuntu-VirtualBox:~/REPOSITORY$ git init
hint: Using 'master' as the name for the initial branch. This default branch na
me
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/REPOSITORY/.git/
```

:

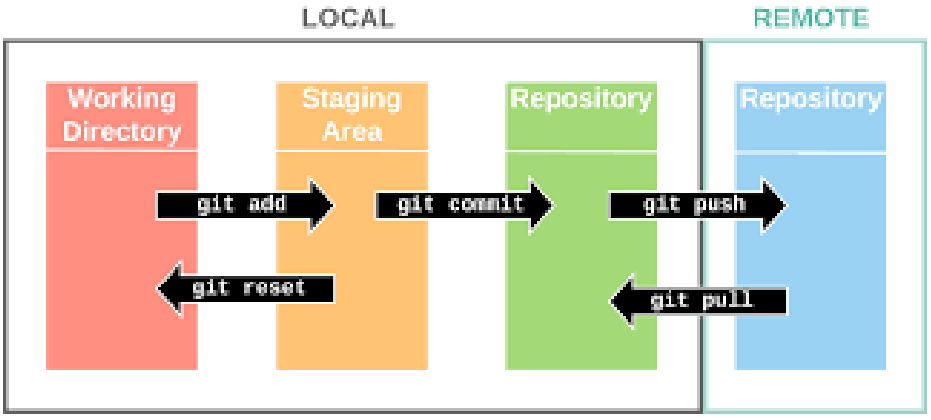
List the content to verify:

**$ ls -a .git**

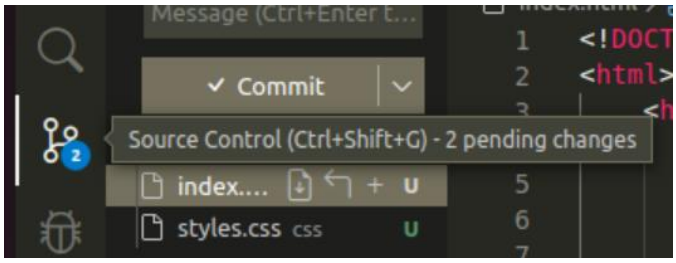
- ❑ **ACTIVITY 8 – CREATIG VERSIONS WITH GIT**
- Create a new folder named activity8

After having created the folder, open it with Visual Studio Code. Create an index.html as a page with a title “Activity 8”. Create also a styles.css inside a css folder that allows the title in the page to have sans-serif text and is underlined.

- Prepare the folder to be used with Git. (Execute **$ git init** //being located in the folder or on Git from the Command Palette )



C/ Literat Azorín, 1 46702 – GANDIA
Tfno. 962829430 – Fax. 962829431
Codi: 46004221 – CIF: Q-9655627-I
46004221@edu.gva.es
http://iesmariaenriquez.com




Source control changes will notify that there are 2 files pending change.

- Save this code version on Git as the first snapshot of it. Do it with git command or using the Visual Studio Code buttons.

  $ git add . ; git commit –m "snapshot 1"

- Make changes on both files (css and html) and save a second snapshot.

```
ubuntu@ubuntu-VirtualBox:~/activity8$ git log
commit 3c7354da6e7cea09ed5c1ab7bc94ec9251e2d122
Author: gema <gi.morantibanez@edu.gva.es>
Date:   Wed Aug 31 15:41:44 2022 +0200

    Gray paragraph

commit 943271b9a413dce9f53bee7a4d9ec45e78ec24a5
Author: gema <gi.morantibanez@edu.gva.es>
Date:   Wed Aug 31 15:35:06 2022 +0200

    First snapshot
ubuntu@ubuntu-VirtualBox:~/activity8$
```

- Come back to the first snapshot.

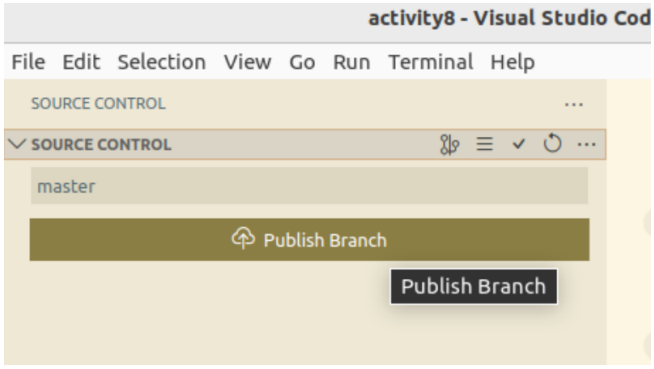
**$ git checkout CommitNumber**

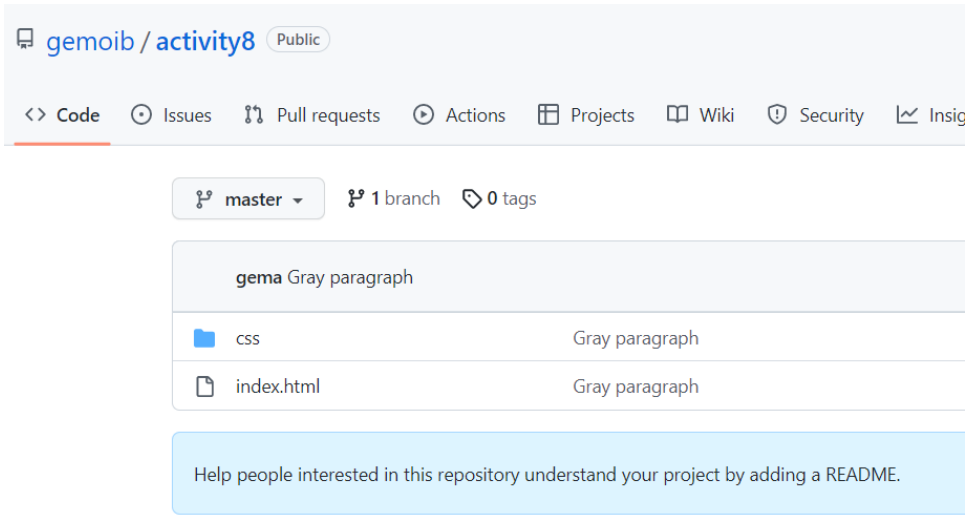
## ❑ ACTIVITY 9 – UPLOAD PROJECT TO GITHUB

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

First, create the repository in your Github.

From Visual Studio Code you may publish a snapshot to GitHub.


activity8 - Visual Studio Cod
File Edit Selection View Go Run Terminal Help
SOURCE CONTROL
SOURCE CONTROL
master
Publish Branch
Publish Branch


gemoib / activity8
Public
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
master
1 branch
0 tags
gema Gray paragraph
css
Gray paragraph
index.html
Gray paragraph
Help people interested in this repository understand your project by adding a README.