1. **Installing VS Code**

* Download the Visual Studio Code installer for Windows (<https://go.microsoft.com/fwlink/?LinkID=534107>).
* Once it is downloaded, run the installer (VSCodeUserSetup-{version}.exe). This will only take a minute.
* By default, VS Code is installed under: \Users\{Username}\AppData\Local\Programs\Microsoft VS Code.

1. **Installing GIT**

* Download the latest version of Git and choose the 64/32 bit version. (<https://git-scm.com/downloads>)
* Check the Git version: *git –version*
* For any help, use the following command: *git help config*
* Create a local directory using the following command:

*mkdir test*

*cd test*

* The next step is to initialize the directory: *git init*
* Go to the folder where "test" is created and create a text document named "demo." Open "demo" and put any content, like "Hello Simplilearn." Save and close the file.
* Enter the Git bash interface and type in the following command to check the status: *git add demo.txt*
* Next, make a commit using the following command: *git-config –global username*
* Open your Github account and create a new repository with the name "test\_demo" and click on "Create repository." This is the remote repository. Next, copy the link of "test\_demo."
* Push the local file onto the remote repository using the following command: *git push origin master*
* Move back to Github and click on "test\_demo" and check if the local file "demo.txt" is pushed to this repository.

1. **Installing Python**

*Step 1: Download Python*

To start, go to python.org/downloads and then click on the button to download the latest version of Python. (https://www.python.org/downloads/)

*Step 2: Run the .exe file*

Next, run the .exe file that you just downloaded, and then follow the installation instructions.

*Step 3: Run a script in Python*

You can run a script in Python via the Python IDLE.

To do that, type “idle” in the Windows search bar. Then, click on the Python App that you just installed.

You’ll then see the “Shell” screen. Click on File and then select New File (alternatively, you may use the keyboard shortcut of Ctrl+N).

You’ll now see the “untitled” box, where you can write your Python script. For example, type/copy the following script to print the famous expression of “Hello World“: print(“Hello World”)

ress F5 on your keyboard. You’ll now get a message to save your script – Press OK.

Choose a location where the Python file would be saved on your computer. You’ll also need to type a name for your file. For instance, type “my\_script” for your file name.

1. **Installing MySQL**

Download MySQL Installer: Go to the official MySQL website and download the MySQL Installer for Windows. Choose the appropriate version (64-bit or 32-bit) based on your system requirements.

Run the Installer: Once the installer is downloaded, run the executable file to start the installation process. The MySQL Installer will guide you through the installation steps.

Choose Installation Type: Select the “Server Only” option during the installation process. This will install the MySQL Server without any additional components.

Configure Server: The installer will prompt you to configure the MySQL Server. Choose a password for the root user, which is the default administrative user for MySQL. Make sure to remember this password as it will be required for accessing the server later.

Select MySQL Version: In the installer, you can choose the specific version of MySQL you want to install. Select version 8.0.33 to install MySQL 8.0.33 Server.

Start the Server: Once the installation is complete, you can start the MySQL Server by clicking on the “Start MySQL Server” option. The server will start running in the background.

Verify Installation: To ensure that the server is running correctly, you can open a command prompt and type “mysql -V”. This will display the MySQL version installed, confirming that the server is up and running.

Access MySQL Server: To interact with the MySQL Server, you can use a command-line client like MySQL Shell or a graphical user interface tool like MySQL Workbench. These tools allow you to execute SQL queries, manage databases, and perform various administrative tasks.