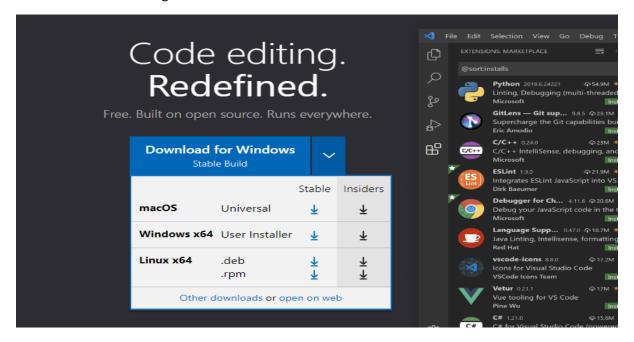
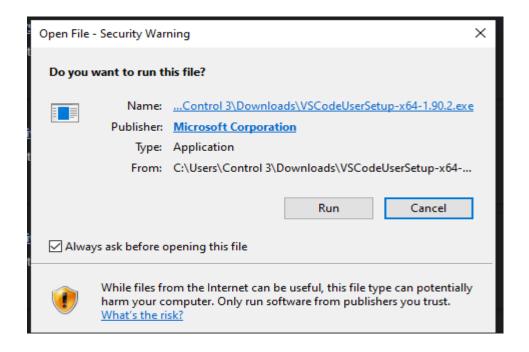
1. Visual Studio Code Installation.

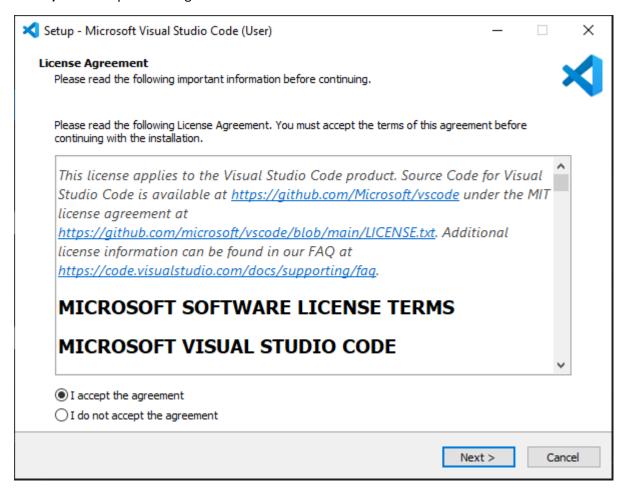
- What is Visual Studio Code? Visual studio code is a code editor redefined and optimized for building and debugging modern web and cloud applications. Below is a step by step guideline on how to install visual studio code.
- i) Open your browser on your PC and type this url: https://code.visualstudio.com/ click on download and select your referred operating system. And wait until its done downloading.



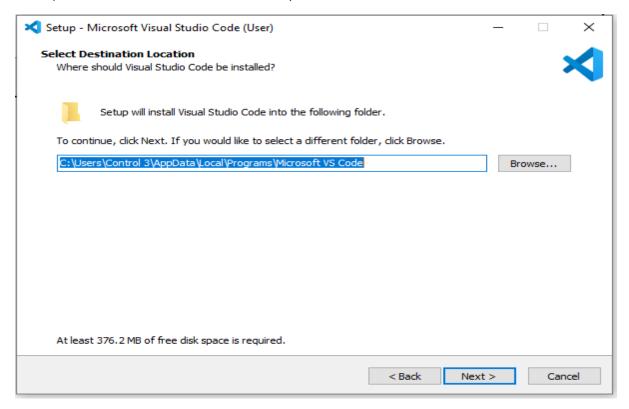
ii) Once downloaded, double click on the downloaded file to initiate the setup.Click on Run.



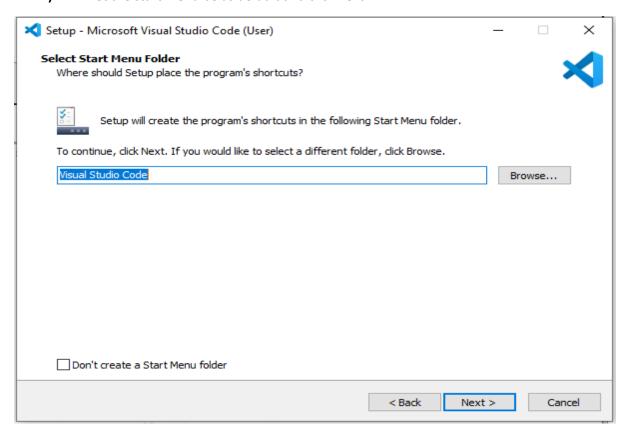
iii) Accept license agreement and click next.



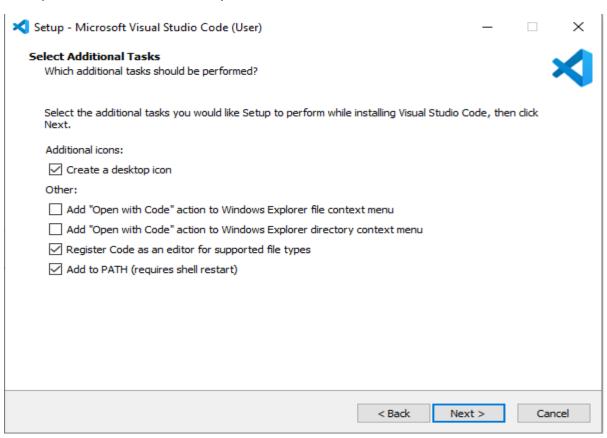
iv) Let the installation locations be by default and click next.



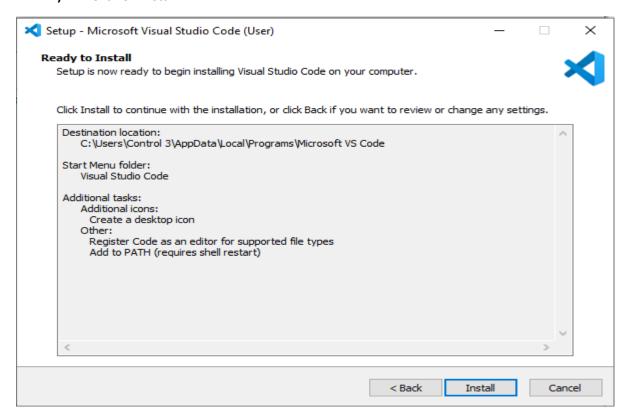
v) Let the start menu be as default and click next.



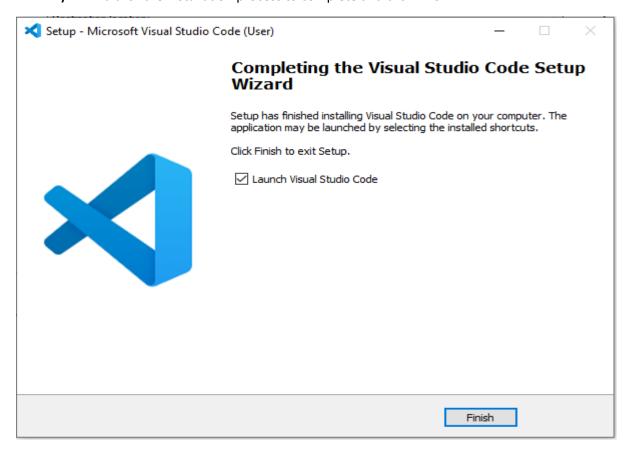
vi) Click on create a desktop icon and click next.



vii) Click on Install.



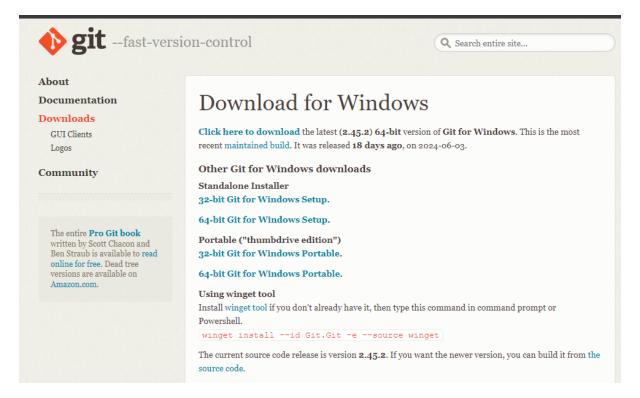
viii) Wait for the installation process to complete and click finish.



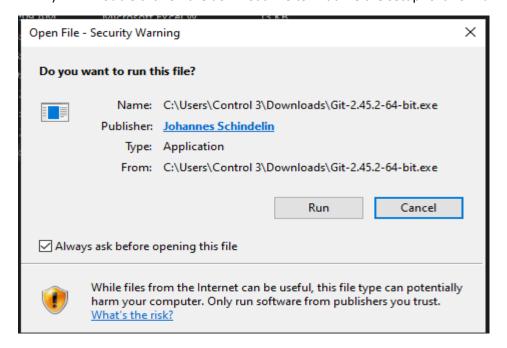
2. Git

What is Git.? Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. Below is a step by step procedure on how to install Git in you PC.

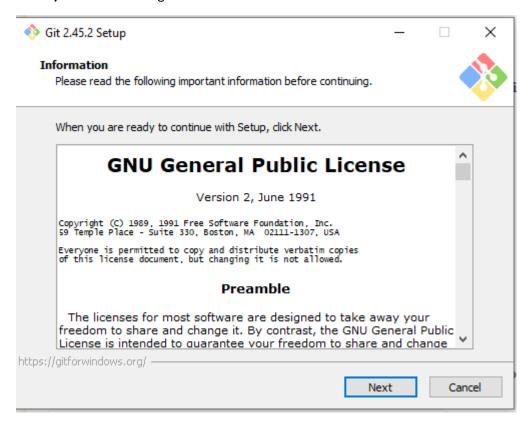
Open your web browser on your machine and enter this url: https://www.git-scm.com/.
 And click download for windows and download your preferred operating system version.



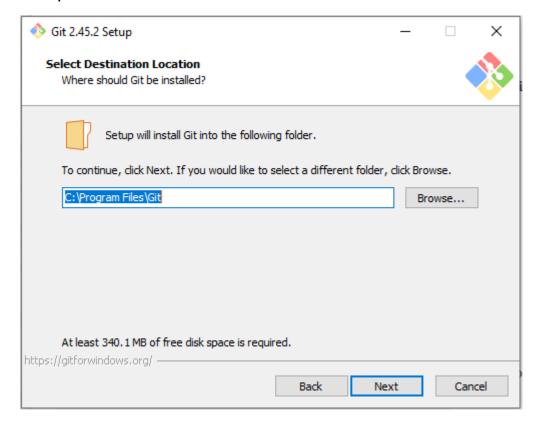
ii) Double click on the download file to initialize the setup. Click on run.



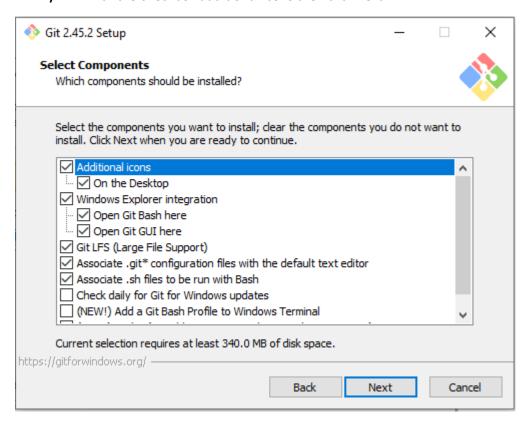
iii) Read through the terms and conditions then click next.



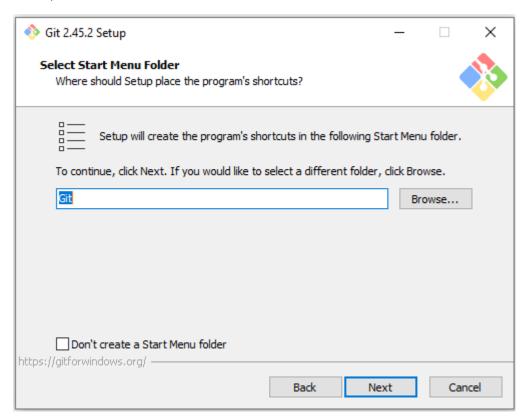
iv) Let the destination location be a s default then click next.



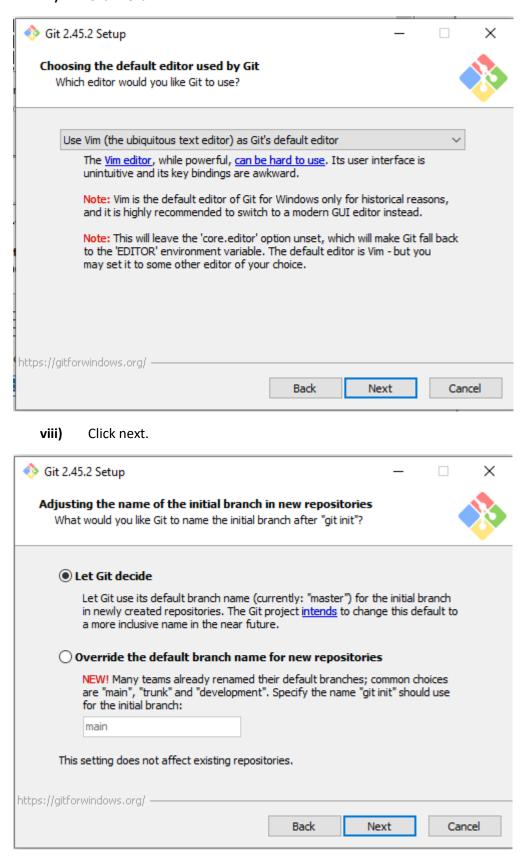
v) Tick the checkbox additional icons then click next.



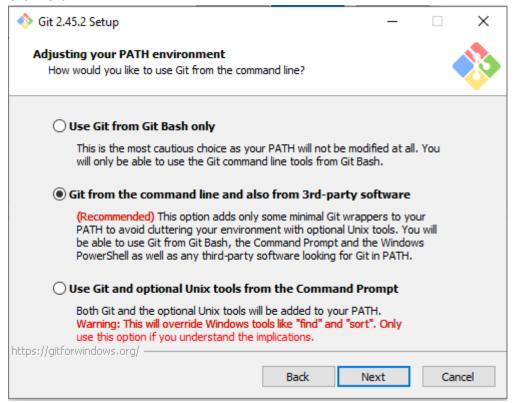
vi) Click next



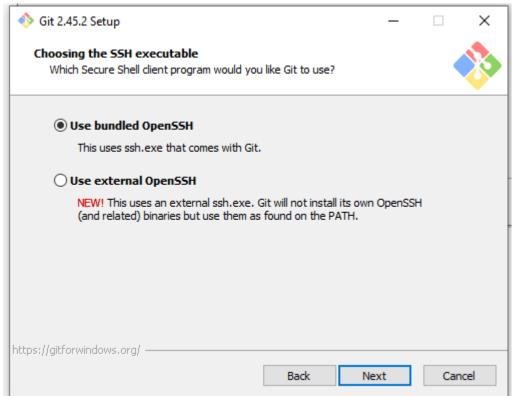
vii) Click next

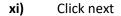


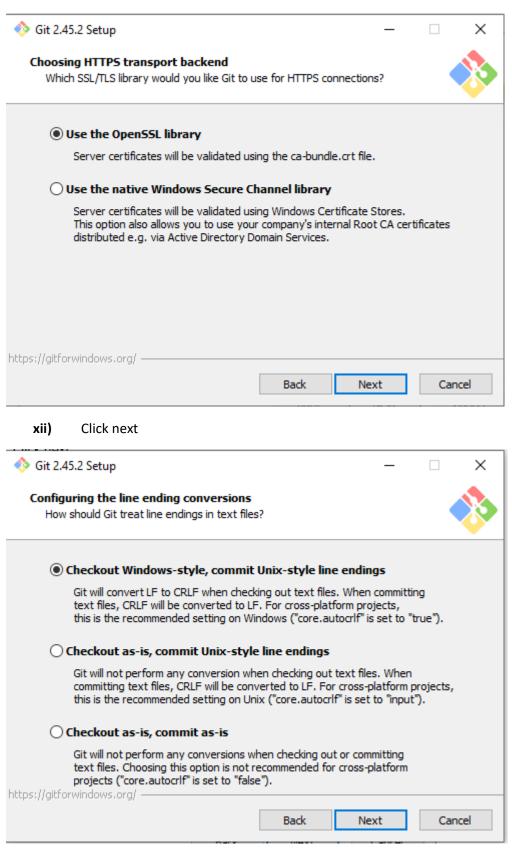
ix) Click next



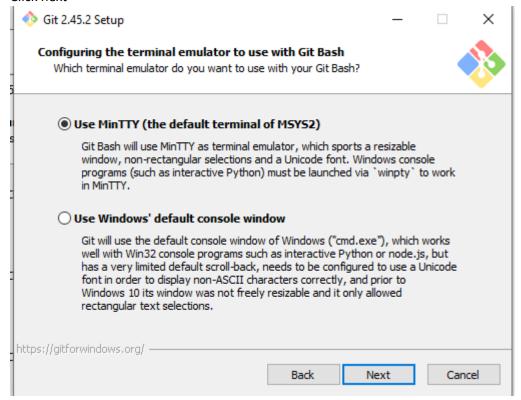
x) Click next



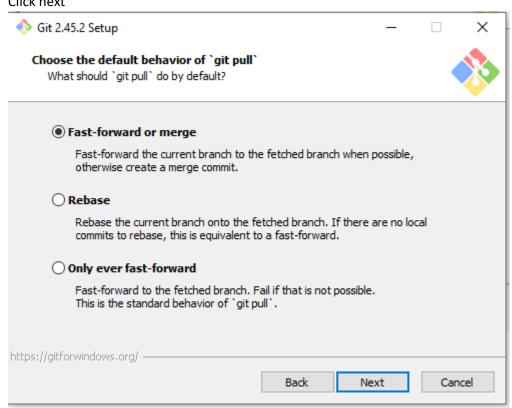




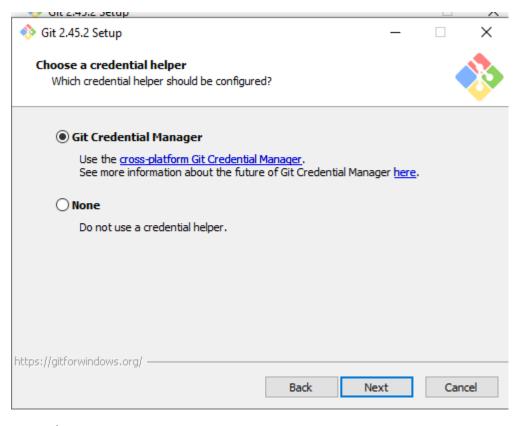
xiii) Click next



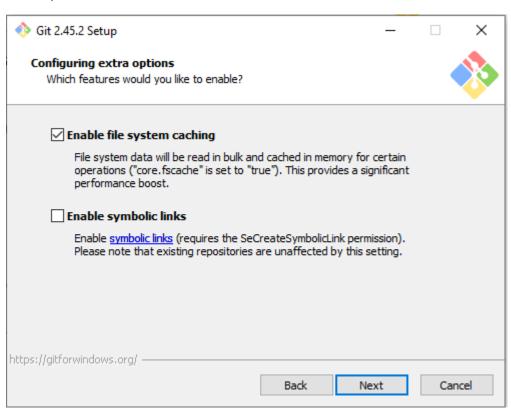
xiv) Click next

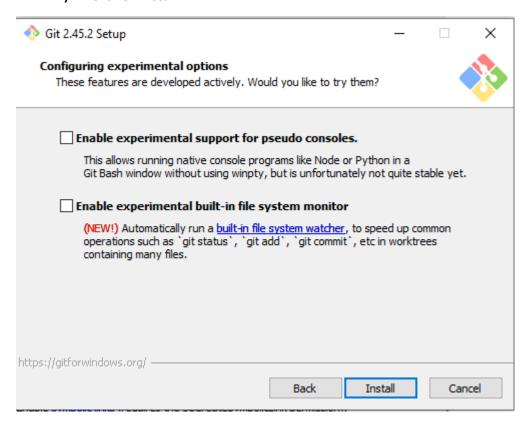


xv) Click next

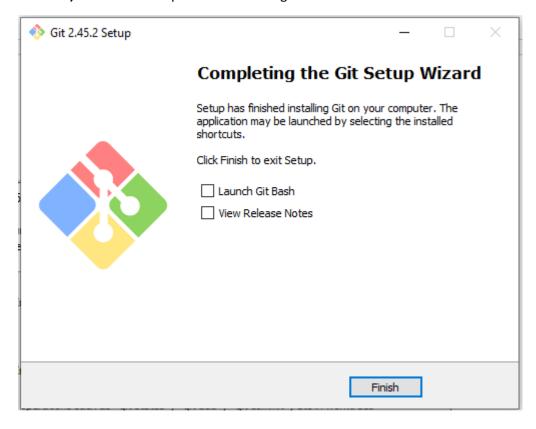


xvi) Click next





xviii) Wait for setup to finish installing and click finish.



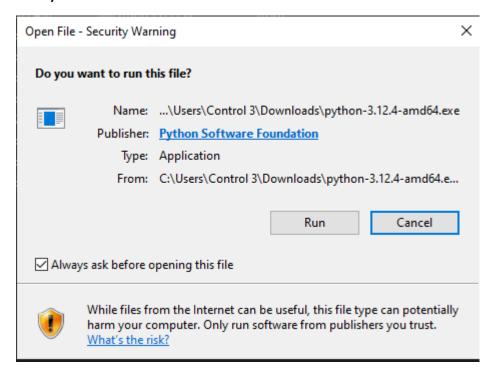
3. Python

What is python? Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Below is a step by step guide on python installation.

i) Open your web browser and key in this url: https://www.python.org/downloads/
And click on download.



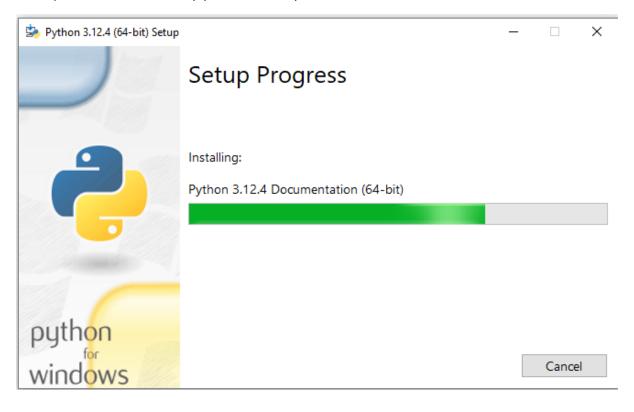
ii) Double click on the downloaded file. And click on run.



iii) Check the box "Add python.exe to PATH then click install now.



iv) Wait for the setup process to complete.

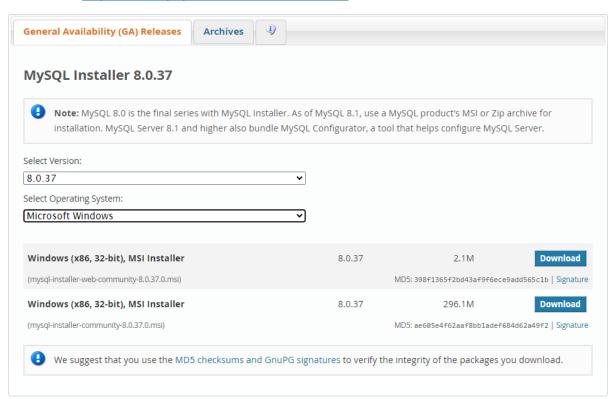


v) Once installation process is complete click on close.

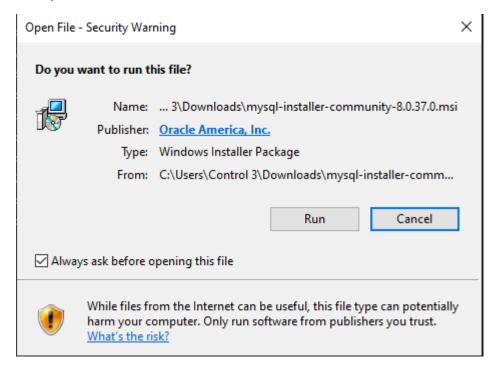
4. MySQL

What is MySQL? is a relational database management systemA relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structure is organized into physical files optimized for speed. Below is a guide on MySQL installation.

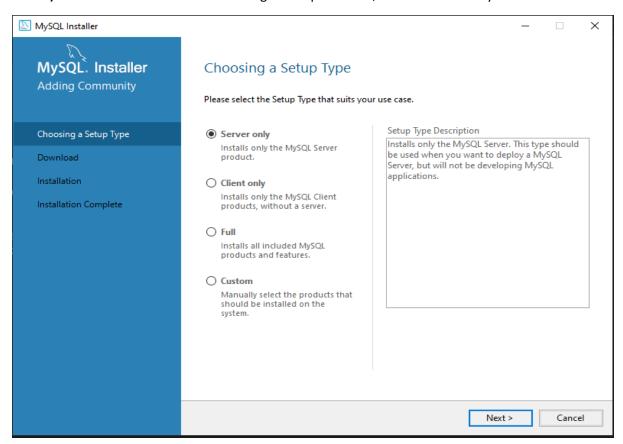
Open your web browser and type in this url: https://dev.mysql.com/downloads/installer/ and select download.



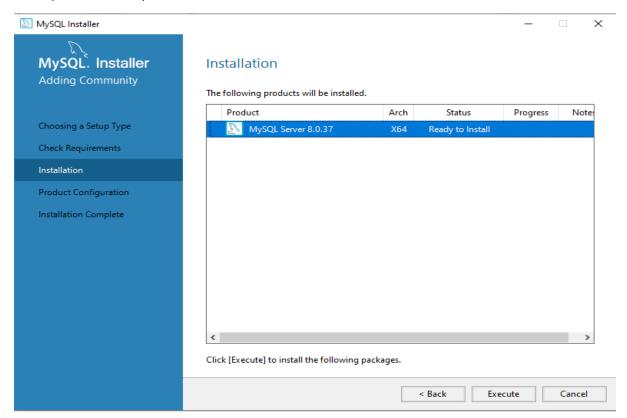
ii) Double click on the downloaded file and select Run.



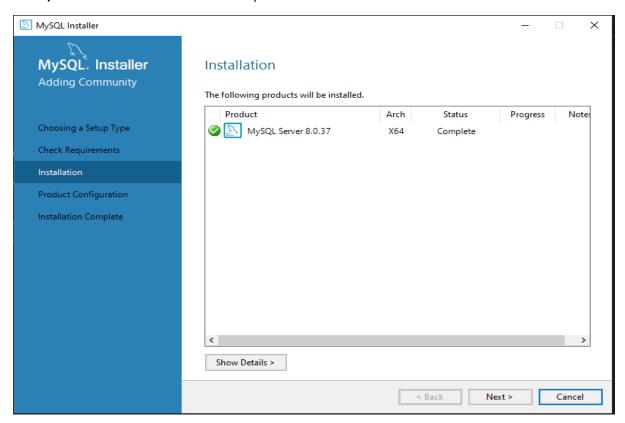
iii) Once it has finished extracting the required files, click on server only then next.



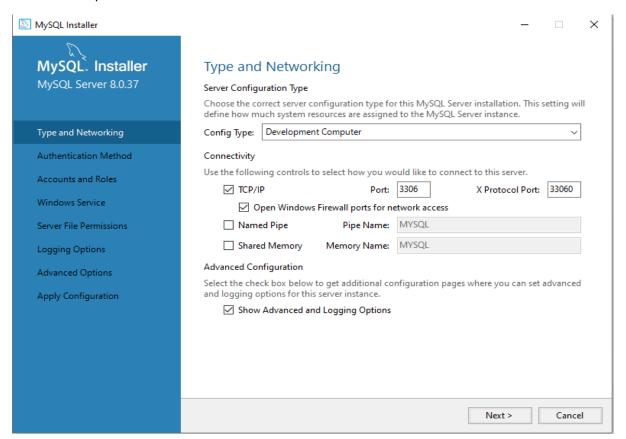
iv) Select MySQL Server 8.0.37 and click on execute.



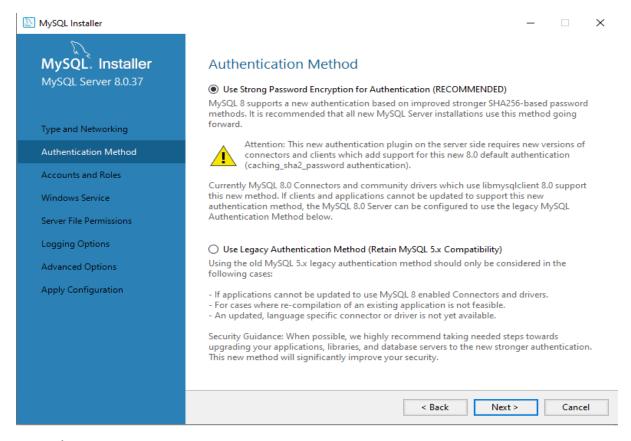
v) Once the installation is complete click next.



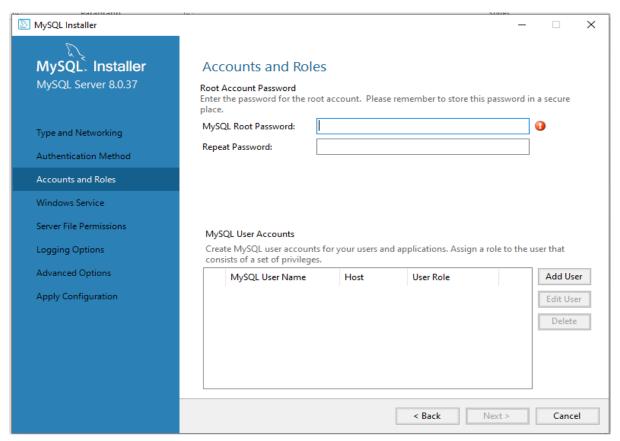
vi) Leave everything at default and tick on the check box "Show advanced and Logging options"



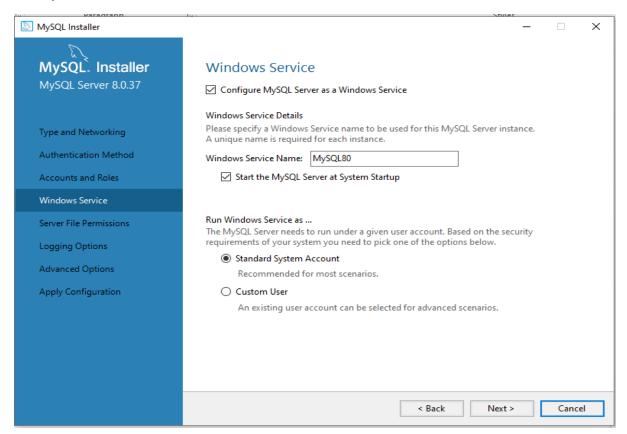
vii) Click on next



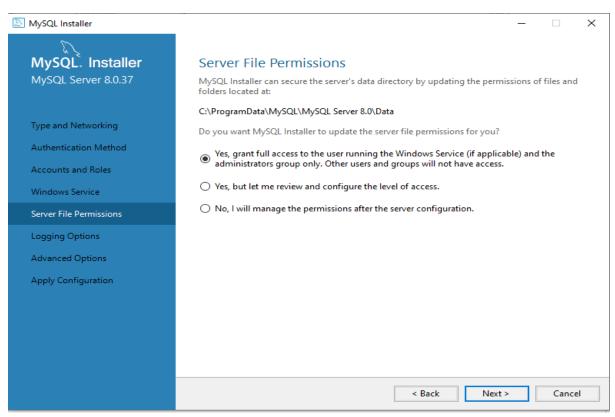
viii) Input a strong password. NB: input a password which you can easily remember as it will be required every time you log into the server. Click next.



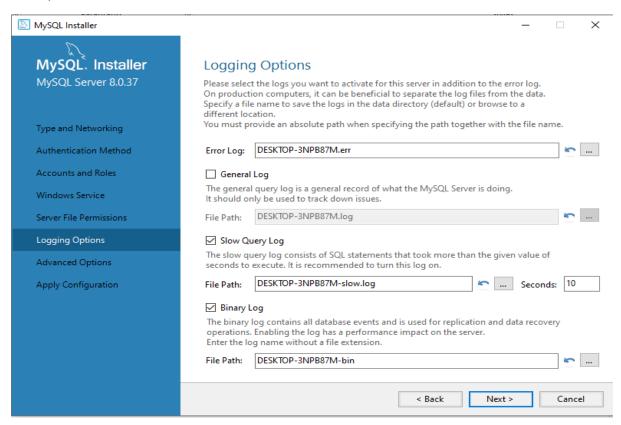
ix) Click next.



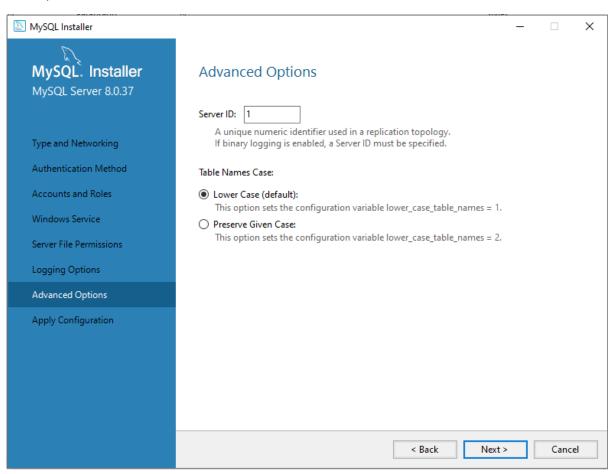
x) Click next.



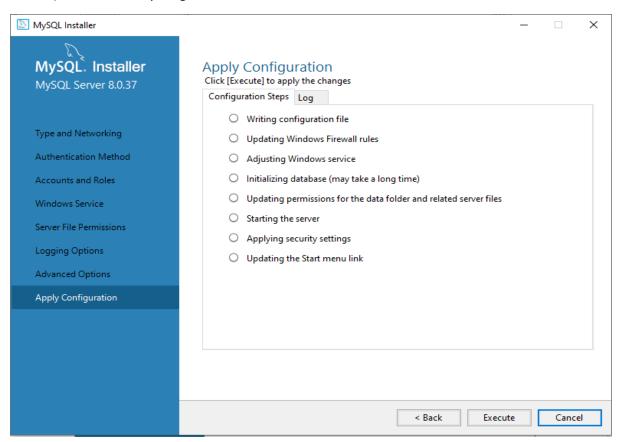
xi) Click next.



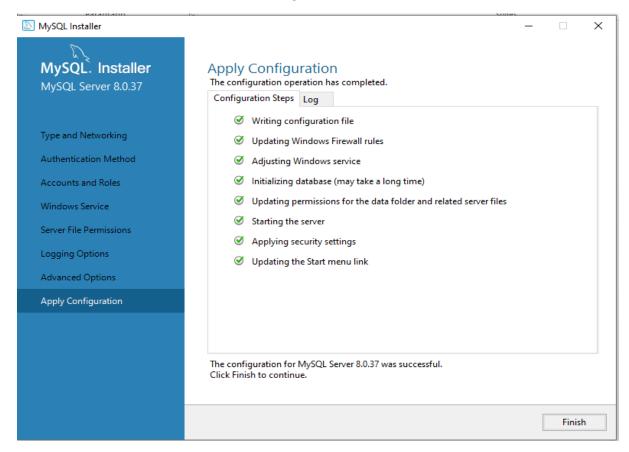
xii) Click next.



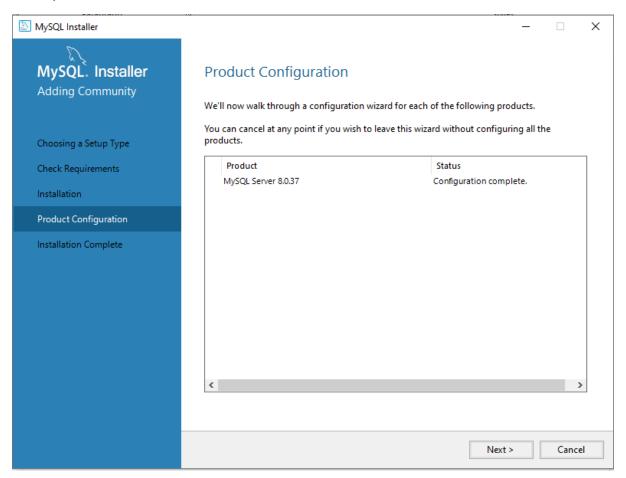
xiii) Leave everything at default and click execute.



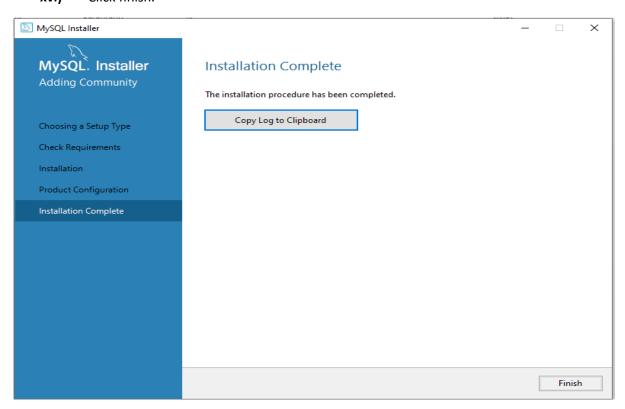
xiv) Ensure all check boxes are ticked green the click on finish.



xv) Click on next.

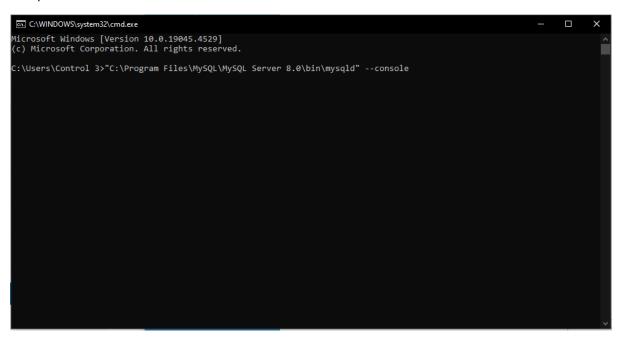


xvi) Click finish.

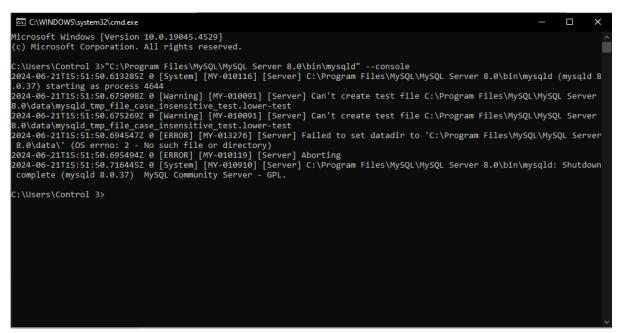


xvii) On your machine run command prompt and make sure you run as an Administrator. Then key in the following command. "C:\Program Files\MySQL\MySQL Server 8.0\bin\mysqld" -console

And press enter.



NB: the above is used to start the MySQL server.



xviii) You can as well stop the server using the below command on cmd.

"C:\Program Files\MySQL\MySQL Server 8.0\bin\mysqladmin" -u root shutdown

```
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Control 3>"C:\Program Files\MySQL\MySQL Server 8.0\bin\mysqld" --console
2024-06-21715:51:50.613285Z 0 [System] [MY-010916] [Server] C:\Program Files\MySQL\MySQL Server 8.0\bin\mysqld (mysqld 8.0.37) starting as process 4644
2024-06-21715:51:50.675098Z 0 [Warning] [MY-010091] [Server] Can't create test file C:\Program Files\MySQL\MySQL Server 8.0\data\mysqld_tmp_file_case_insensitive_test.lower-test
2024-06-21715:51:50.675098Z 0 [Warning] [MY-010091] [Server] Can't create test file C:\Program Files\MySQL\MySQL Server 8.0\data\mysqld_tmp_file_case_insensitive_test.lower-test
2024-06-21715:51:50.675098Z 0 [Warning] [MY-013091] [Server] Can't create test file C:\Program Files\MySQL\MySQL Server 8.0\data\mysqld_tmp_file_case_insensitive_test.lower-test
2024-06-21715:51:50.694547Z 0 [ERROR] [MY-013276] [Server] Failed to set datadir to 'C:\Program Files\MySQL\MySQL Server 8.0\data\' (05 errno: 2 - No such file or directory)
2024-06-21715:51:50.695494Z 0 [ERROR] [MY-010319] [Server] Aborting
2024-06-21715:51:50.695494Z 0 [ERROR] [MY-01010] [Server] Aborting
2024-06-21715:51:50.71644SZ 0 [System] [MY-010910] [Server] C:\Program Files\MySQL\MySQL Server 8.0\bin\mysqladmin" -u root shutdown complete (mysqld 8.0.37) MySQL Community Server - GPL.

C:\Users\Control 3>"C:\Program Files\MySQL\MySQL Server 8.0\bin\mysqladmin" -u root shutdown mysqladmin connect to server a 'localhost' failed error: 'Access denied for user 'root'@'localhost' (using password: NO)'

C:\Users\Control 3>

C:\Users\Control 3>
```