Roll: 68 Batch: C

# **Experiment 2**

**Aim:** To understand Version Control System / Source Code Management, install git and create a GitHub account.

## Theory:

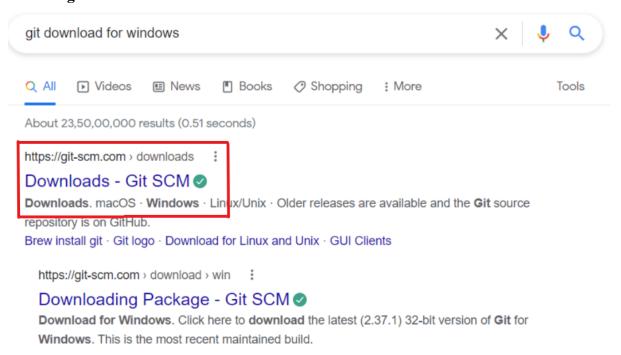
# **Version Control System / Source Code Management:**

Version control, also known as source control, is the practice of tracking and managing changes to software code. Version control systems are software tools that help software teams manage changes to source code over time. As development environments have accelerated, version control systems help software teams work faster and smarter. They are especially useful for DevOps teams since they help them to reduce development time and increase successful deployments.

Version control software keeps track of every modification to the code in a special kind of database. If a mistake is made, developers can turn back the clock and compare earlier versions of the code to help fix the mistake while minimising disruption to all team members.

# **Output:**

## **Installing Git:**



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# Download for Windows

Click here to download the latest (2.37.1) 64-bit version of Git for Windows. This is the most recent maintained build. It was released 23 days ago, on 2022-07-12.

Other Git for Windows downloads

Standalone Installer

32-bit Git for Windows Setup.

64-bit Git for Windows Setup.

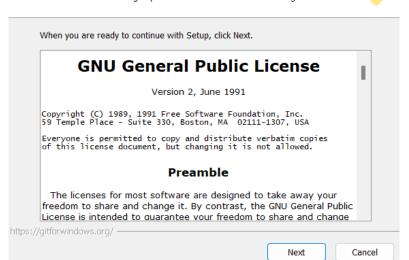
Portable ("thumbdrive edition") 32-bit Git for Windows Portable.

64-bit Git for Windows Portable.

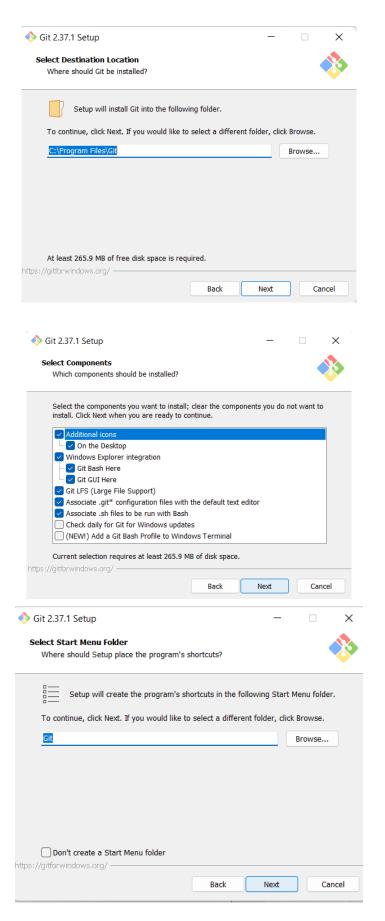
#### Using winget tool

Install winget tool if you don't already have it, then type this command in command prompt or Powershell.





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Choosing the default editor used by Git
Which editor would you like Git to use?

Use Vim (the ubiquitous text editor) as Git's default editor

The Vim editor, while powerful, can be hard to use. Its user interface is unintuitive and its key bindings are awkward.

Note: Vim is the default editor of Git for Windows only for historical reasons, an it is highly recommended to switch to a modern GUI editor instead.

Note: This will leave the 'core.editor' option unset, which will make Git fall back to the 'EDITOR' environment variable. The default editor is Vim - but you may set it to some other editor of your choice.

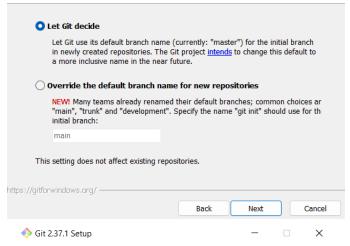
### Adjusting the name of the initial branch in new repositories

Git 2.37.1 Setup

What would you like Git to name the initial branch after "git init"?



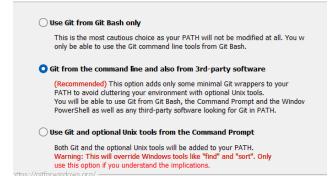
X



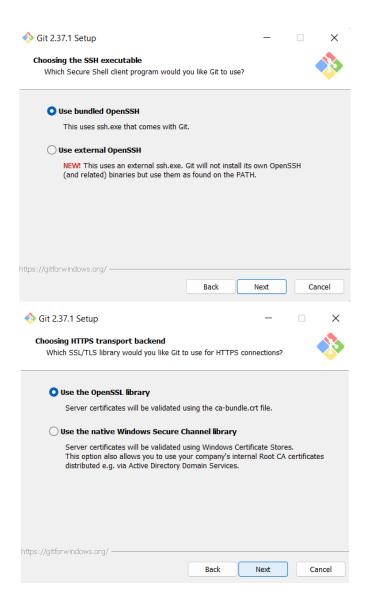
#### Adjusting your PATH environment

How would you like to use Git from the command line?

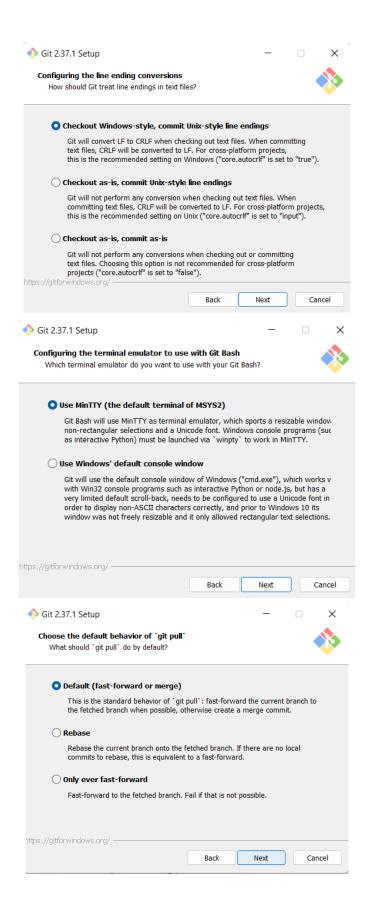




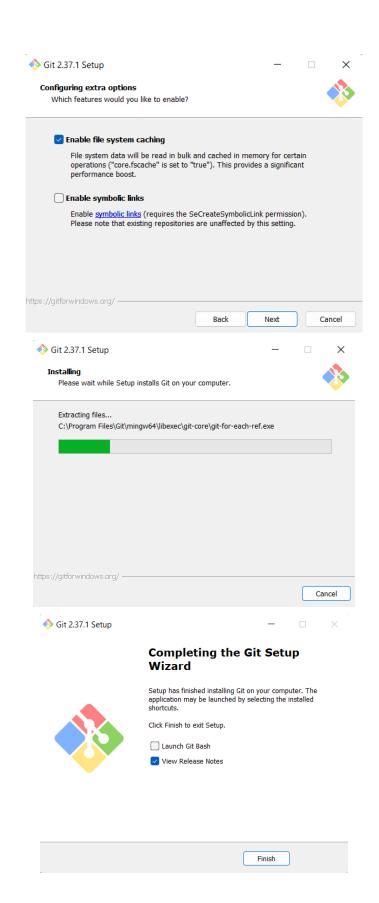
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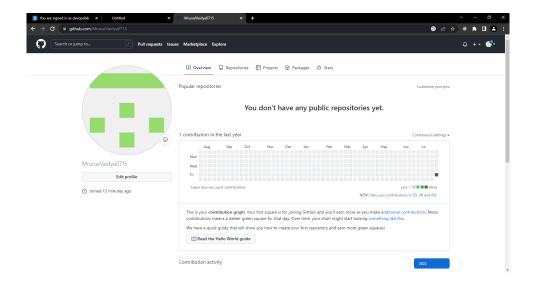


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## **Creating Github Account:**

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# **Conclusion:**

From the above experiment, the concept of the Version Control System is understood. Also, the installation of Git and Github Account creation was done successfully. And hence, with this experiment we have achieved the Lab Outcome two (LO2).

POs Achieved: PO1, PO5, PO12.