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Roll Number: 56		LAB Assignment Number: 2	
Title of LAB Assignment: To implement Version control for different files/directories using GIT, install git and create a GitHub account.			
DOP: 24 – 01 – 2025		DOS: 25 – 01 – 2025	
CO Mapped: CO1	PO Mapped: PO2, PO5, PSO1	Faculty Signature:	Marks:

Practical No:2

Aim: To implement Version control for different files/directories using GIT, install git and create a GitHub account.

Description:

What is Git?

Git is a free and open-source distributed version control system used for source code management. It tracks changes in any set of computer files, enabling multiple developers to work together on non-linear development. Its goals include speed, data integrity, and support for distributed, non-linear workflows. Git makes collaboration easier, allowing changes by multiple people to all be merged into one source. It is a DevOps tool that helps software developing teams manage changes to their source code over time.

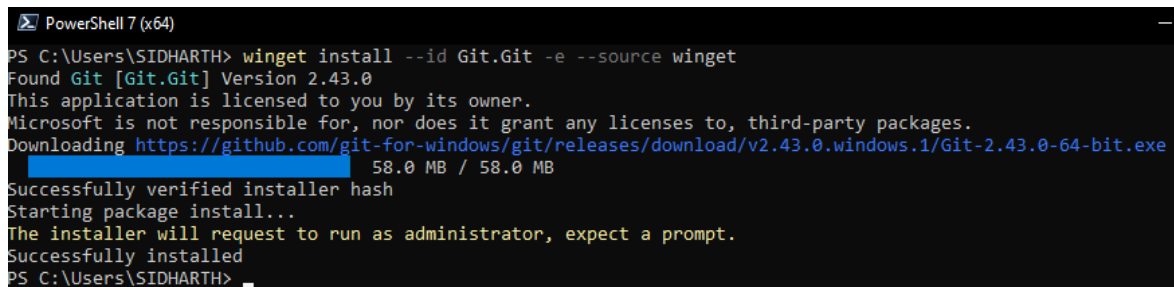
What is GitHub?

GitHub is an online software development platform. It's used for storing, tracking, and collaborating on software projects. It makes it easy for developers to share code files and collaborate with fellow developers on open-source projects. GitHub also serves as a networking site where developers can openly network, collaborate, and pitch their work. GitHub users create accounts, upload files, and create coding projects.

Steps:

Installation of Git

1. Open PowerShell console and enter “winget install --id Git.Git -e --source winget” and press Enter. It will auto-install Git to your system. If any prompt is required, press Y and then Enter.



```
PowerShell 7 (x64)
PS C:\Users\SIDHARTH> winget install --id Git.Git -e --source winget
Found Git [Git.Git] Version 2.43.0
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://github.com/git-for-windows/git/releases/download/v2.43.0.windows.1/Git-2.43.0-64-bit.exe
58.0 MB / 58.0 MB
Successfully verified installer hash
Starting package install...
The installer will request to run as administrator, expect a prompt.
Successfully installed
PS C:\Users\SIDHARTH> _
```

2. To check if Git is installed, enter “git --version” in the console and you should get a response with the version number of Git installed on your system.

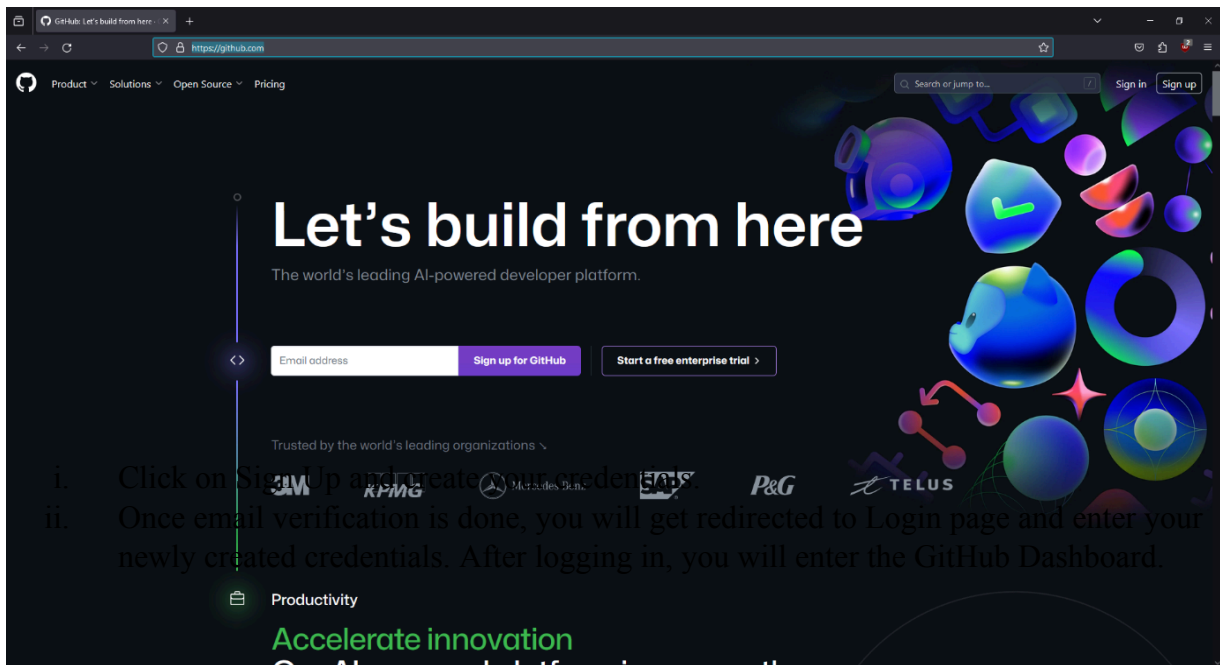
```
Microsoft Windows [Version 10.0.26100.2605]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\rahul suwasiya>git --version  
git version 2.42.0.windows.2  
  
C:\Users\rahul suwasiya>|
```

3. To use Git you can use Git Bash Console.

```
MINGW64:/c/Users/rahul suwasiya  
  
rahul suwasiya@LAPTOP-NDE3PVF4 MINGW64 ~  
$ |
```

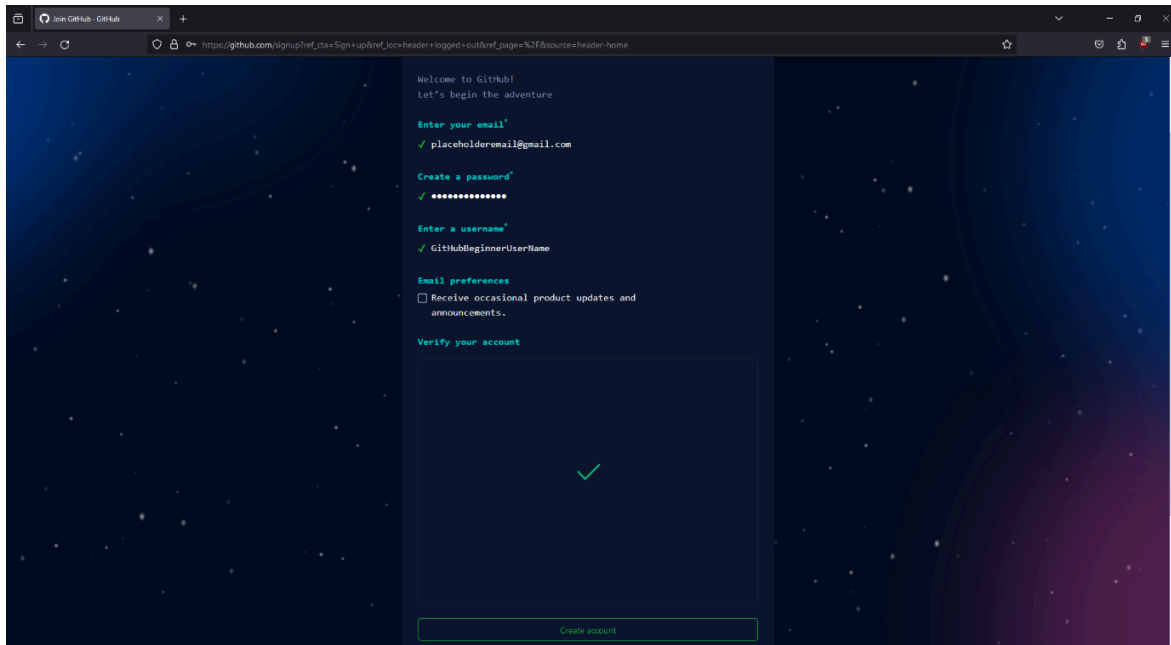
Creating GitHub Account

1. Open your browser and type <https://github.com/> in the address bar.

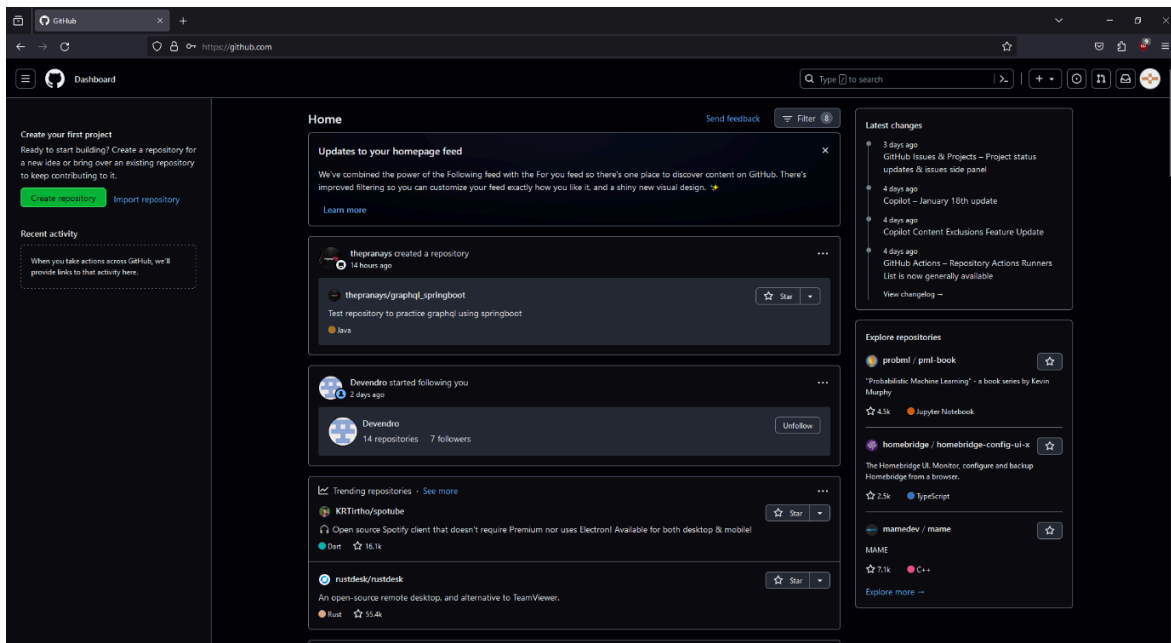


- i. Click on Sign Up and create your credentials.
- ii. Once email verification is done, you will get redirected to Login page and enter your newly created credentials. After logging in, you will enter the GitHub Dashboard.

2. Click on Sign Up and create your credentials.



3. Once email verification is done, you will get redirected to Login page and enter your newly created credentials. After logging in, you will enter the GitHub Dashboard.



With this, we have successfully install Git and created a GitHub account.