**Git & GitHub**  
  
Either Download Git Bash or We can use VScode  
  
  
Click on the below URL to install GIT Bash on windows  
Reference for Notes : <https://www.youtube.com/watch?v=NR_A2gCxaLE&list=PLQbQOmlGYH3sxlq9ugoq1ipNFP7tus5Gd&index=3&t=2125s>

**1.Steps to SetUp Git inside VScode [Terminal]**

|  |
| --- |
| 1. Download VScode Reference Notes - <https://www.youtube.com/watch?v=KwaQklruGnI&t=259s&ab_channel=WebTech>  2. Click on Download Git for Windows  3. Click on Open    4. Download the required version  5. Click on next    6.Select the below option and click on next    7. After it is finished try restarting the VScode Application |

**2.Steps to SetUp Git inside VScode [Using Extension]**

|  |
| --- |
| 1. Download VScode  Reference Notes - <https://www.youtube.com/watch?v=mR9jhYD3bnI&t=293s>  2. Install the below Extension as showed in the image    3.Sign into the Git using VScode    4.Initialize the repository  5. Make sure to execute git config command |

**3.GIT Commands [This commands can be used on Git Bash and VS code terminal]**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.To create a directory   |  | | --- | | mkdir Git |   2.To remove directory   |  | | --- | | rmdir Git |   3.To initialize present folder as a Git   |  | | --- | | git init |   4.To add it into staging area, where they can track the changes (Ex: git add HeaderV1.html)   |  | | --- | | git add HeaderV1.html |   5.To check the changes made in the code   |  | | --- | | git diff |   6. To check the program files that are added into Git   |  | | --- | | git status |   7. To check the changes   |  | | --- | | git log --oneline |   8. It is used to config the identity before commiting  [link in case of error: <https://www.youtube.com/watch?v=dRNcbhx2698>]   |  | | --- | | git config --global user.email "hrushigatpelli9@gmail.com" |   9. It is used to config the identity before commiting   |  | | --- | | git config --local user.name "Hrushikesh" |   10. It is used to check you name in the config list   |  | | --- | | git config --list |   11.git commit - it is used to commit the changes into the local repository =  -a we use it as an all  -m we use it to write message   |  | | --- | | git commit -HeaderV1.html  git commit -HeaderV1.html -a  git commit -a -m 'first commit' |   12.It is used to connect git with remote repository.   |  | | --- | | git remote add <repository name> <repository url> Ex. git remote add DevOpPrac <https://github.com/hrushigatpelli9/DevOpPrac.git> |   13.It is used to push the code into remote repository  [Link in case of error: <https://www.youtube.com/watch?v=WCTzGrUVk5M>]   |  | | --- | | git push <repository name> master Ex. git push DevOpPrac master |   14. It is used to create a new branch   |  | | --- | | git branch <branch name |   15. to check the list of branches   |  | | --- | | git branch |   16.To push it into the specific branch   |  | | --- | | git push -u <branchname> |   17. It is used to change the branch   |  | | --- | | git checkout <branch name> |   18. It is used to merge 2 different branches   |  | | --- | | git merge <branch name> - |   19. It will come in handy once we face an issue of Merge Conflict   |  | | --- | | git mergetool |   20. It is used to rename the filename   |  | | --- | | git mv <filename><filename> |   21. to delete the file   |  | | --- | | git rm <filename> |   22. to restore all the changes   |  | | --- | | git restore <filename> |   23. It is used to make changes in the present/previous commit   |  | | --- | | git commit --amend |   24. To reset the commit   |  | | --- | | git reset <hash number> |   25. git rebase <branch>/<commit>   |  | | --- | | git rebase <branch>/<commit> |   26. To switch the branchline   |  | | --- | | git switch <branchname> - |   27. To switch to main branch   |  | | --- | | git checkout main | |