**AIM:** Implementing software version control.

DESCRIPTION:

Installation of Git:

STEP-1: Download Git from Google.

STEP-2: Go to the downloaded location and configure the Git in the system. STEP-3: Now install the Git.

STEP-4: Open command prompt and type “git” over there. Then it shows that git is downloaded that is in the command prompt we get the version of it. Hence, we get the download status.

Creation of account in GitHub:

* Open GitHub in Google.
* Click on the link “GitHub: Where the world builds software. GitHub”
* Go to sign-in.
* If you are having an account, enter username /email address and password
* If you are not having an account, click on create an account.
* Now click on sign in. You get the account with profile.
* In that account on the right-side top there is a ‘+’ symbol and click on that.
* In that click on new repository.
* Now, give the repository name.
* Then, we have two options public and private, choosing one of them is of your choice.
* At last, click on the create repository.

GITHUB COMMANDS:

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| Git task | Notes | Git commands |
| **Tell Git who you are** | Configure the author’s name and email address to be used with your commits.  Note that Git strips some characters (for example trailing periods)  from user.name. | git config --global user.name "Sam Smith"  git config --global user.email [sam@example.com](mailto:sam@example.com) |
| **Create a new**  **local repository** |  | git init |

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| **Check out a repository** | Create a working copy of a local repository: | git clone /path/to/repository |
|  | For a remote server, use: | git clone username@host:/path/to/repository |
| **Add files** | Add one or more files to staging (index): | git add <filename>  git add \* |
| **Commit** | Commit changes to head (but not yet to the remote  repository): | git commit -m "Commit message" |
| Commit any files you've added with git add, and also commit any files you've changed since then: | git commit -a |
| **Push** | Send changes to the master  branch of your remote repository: | git push origin master |
| **Status** | List the files you've changed and those you still need to add or commit: | git status |
| **Connect to a remote repository** | If you haven't connected your local repository to a remote server, add the server to be  able to push to it: | git remote add origin <server> |
| **Branches** | List all currently configured remote repositories: | git remote -v |
| Create a new branch and switch to it: | git checkout -b <branchname> |
| Switch from one branch to another: | git checkout <branchname> |
|  | git branch |
|  | git branch -d <branchname> |
|  | git push origin <branchname> |
|  | git push --all origin |