

Title : Git & Github
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Git is used to work with local repository and GitHub is used to maintain remote repository.

Pre-requisites:

Linux Commands

Procedure to maintain local repository:

1. Locate to local repository using **cd** command and initialize local repository using **git init** command.

```
sibi.senthilkumar@asplap1053 MINGW64 /d
$ git init
```

2. Since you are the repository owner, you can configure the git to directly push the code in your repo without access blocking.

```
sibi.senthilkumar@asplap1053 MINGW64 /d/Trainee (task)
$ git config user.name "Sibi M S"
```

```
sibi.senthilkumar@asplap1053 MINGW64 /d/Trainee (task)
$ git config user.email "dummyemail@gmail.com"
```

3. Add the code using **git add** command and commit it with a message.

```
sibi.senthilkumar@asplap1053 MINGW64 /d/Trainee/OOPs (task)
$ git add .
```

4. Add the remote repository link using **git remote add origin <http link>**

```
sibi.senthilkumar@asplap1053 MINGW64 /d/Trainee (master)
$ git remote add origin https://www.github.com/sibims/Sibi_Senthilkumar.git
error: remote origin already exists.
```

5. Push the code to the repository using **git push -u origin <branch name>**

Procedure to push a code to existing repository creating a branch:

1. After adding the files using **git add**, connect to the remote repository using the **git remote add origin <http link>** command.

2. Create and move to the new branch using **git checkout -b “branch name”** command.

```
sibi.senthilkumar@asplap1053 MINGW64 /d/Trainee/OOPs (consoleApplication)
$ git checkout task
Switched to branch 'task'
Your branch is up to date with 'origin/task'.
```

3. Commit the changes with commit message using **git commit -m “message”** and push it to the repository using **git push -u origin <branch name>**.

```
sibi.senthilkumar@asplap1053 MINGW64 /d/Trainee/OOPs (task)
$ git push -u origin task
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 4 threads
Compressing objects: 100% (21/21), done.
Writing objects: 100% (26/26), 217.20 KiB | 18.10 MiB/s, done.
Total 26 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'task' on GitHub by visiting:
remote:   https://github.com/sibims/Sibi_Senthilkumar/pull/new/task
remote:
To https://github.com/sibims/Sibi_Senthilkumar.git
 * [new branch]      task -> task
branch 'task' set up to track 'origin/task'.
```