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Class / Branch: TEIT

Subject: DevOps Lab

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Experiment No. 2

Aim: To perform installation of Git and work on local and remote Git repositories.

GIT is a Version Control System (VCS) (aka Revision Control System (RCS), Source Code Manager (SCM)). A VCS serves as a Repository (or repo) of program codes, including all the historical revisions. It records changes to files at so-called commits in a log so that you can recall any file at any commit point.

To issue a command, start a "Terminal" (for Ubuntu/Mac) or "Git Bash" (for Windows):

```
$ git <command> <arguments>
```

The commonly-used commands are:

1. **init, clone, config**: for starting a Git-managed project.
2. **add, mv, rm**: for staging file changes.
3. **commit, rebase, reset, tag**:
4. **status, log, diff, grep, show**: show status
5. **checkout, branch, merge, push, fetch, pull**

Getting Started with Local Repo

There are 2 ways to start a Git-managed project:

1. Starting your own project;
2. Cloning an existing project from a GIT host.

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Git uses two stages to commit file changes:

1. "git add <file>" to stage file changes into the staging area, and
2. "git commit" to commit ALL the file changes in the staging area to the local repo.

You need to setup Git on your local machine, as follows:

```
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop$ cd git-Siddhit
bash: cd: git-Siddhit: No such file or directory
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop$ cd git-Siddhit
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/git-Siddhit$ pwd
/home/apsit/Desktop/git-Siddhit
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/git-Siddhit$
```

To update all local package index for ubuntu:

```
$sudo su
#apt update
```

```
apsit@apsit-HP-ProDesk-600-G4-PCI-MT:~/Desktop/git-Siddhit$ sudo su
[sudo] password for apsit:
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhit# apt update
Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Ign:6 https://storage.googleapis.com/download.dartlang.org/linux/debian stable InRelease
```

Step1: Download & Install:

```
#apt-get install git
```

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhit# apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb
  git-cvs git-mediawiki git-svn
The following packages will be upgraded:
```

To check version of git:

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#git --version

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT# git --version
git version 2.34.1
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT#
```

Step 2: Customize and configure your Git Account:

#git config --list

#git config --global --unset user.name

#git config --global --unset user.email

#git config --global user.name "sujataoak799"

```
root@labvm:/home/devasc/Desktop/git-sujata# git config --global user.name "sujataoak799"
```

#git config --global user.email sujataoak2021@gmail.com

```
root@labvm:/home/devasc/Desktop/git-sujata# git config --global user.email sujataoak2021@gmail.com
```

To List Global configuration for Git:

#git config --list

```
root@labvm:/home/devasc/Desktop/git-sujata# git config --list
user.name="sujataoak799"
user.email=sujataoak2021@gmail.com
```

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT# git config --global user.name "itsSIDDHEE"
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT# git config --global user.email shankk905@gmail.com
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT# git config --list
user.name=itsSIDDHEE
user.email=shankk905@gmail.com
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT#
```



Step . 3

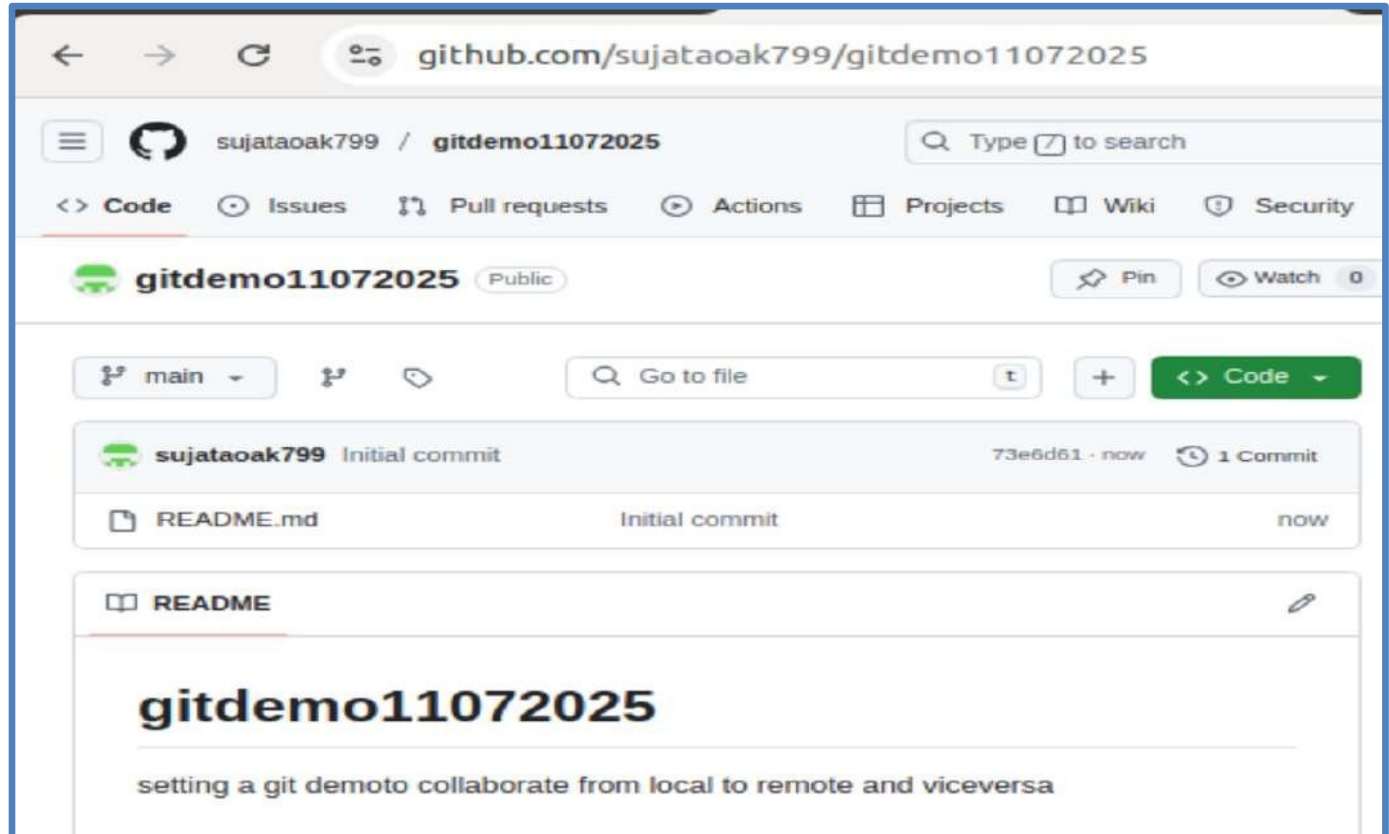
To Integrate Git account with Github:

Goto www.github.com

Sign-in to your account

Create a Repository

Click on Create Repository



Step . 3:

- In local repository initiate the directory to make it a git repository (.git file must be added inside that folder after initiation)

#git init

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/apsit/Desktop/git-SiddhiT/.git/
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT#
```



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Now Clone the Remote Repository into your Local Repository ie; Ubuntu Operating System:

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT# ls -altr
total 12
drwxr-xr-x 33 apsit apsit 4096 Jul 16 10:32 ..
drwxrwxr-x  3 apsit apsit 4096 Jul 16 10:51 .
drwxr-xr-x  7 root  root  4096 Jul 16 10:51 .git
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT#
```



git clone <https://github.com/sujataoak799/gitdemo11072025.git>

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi# git clone https://github.com/itsSIDDHEE/gitdemo16072025.git
Cloning into 'gitdemo16072025'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi#
```

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi# ls -altr
total 16
drwxr-xr-x 33 apsit apsit 4096 Jul 16 10:32 ..
drwxr-xr-x  7 root  root  4096 Jul 16 10:51 .git
drwxrwxr-x  4 apsit apsit 4096 Jul 16 10:54 .
drwxr-xr-x  3 root  root  4096 Jul 16 10:54 gitdemo16072025
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi#
```

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi/gitdemo16072025# ls
README.md
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi/gitdemo16072025# cat README.md
# gitdemo16072025
setup git demo on remote repository
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi/gitdemo16072025#
```

Now Create a python file factorial.py in Local Repository:

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-Siddhi/gitdemo16072025# gedit hi.py
(gedit:8041): dconf-WARNING **: 10:58:40.676: failed to commit changes to dconf: Failed to execute child process "dus-launch" (No such file or directory)
```

```
num = int(input("Enter a number: "))
factorial = 1

if num < 0:
    print("Factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1, num + 1):
        factorial = factorial * i
    print("The factorial of", num, "is", factorial)
```

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Step 4: Now we will apply some git commands to add, commit and push factorial.py file to remote repository: Firstly To View Uncommitted File:

#git status

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        hi.py

nothing added to commit but untracked files present (use "git add" to track)
```

The file factorial.py shown in red color is untracked (it means not tracked by git till now). So to add to the git versioning : git add <filename>

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git add hi.py
```




```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git add hi.py
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   hi.py

root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025#
```

Once file is added to git, the color changes to green color. But it says changes to be committed

Step 5: To start first commit

```
sujat@Sujata-Oak MINGW64 /d/mygithublearning/devopslearn123 (main)
$ git commit -m "my commit file.txt"
Author identity unknown

*** Please tell me who you are.

Run

    git config --global user.email "you@example.com"
    git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'sujat@Sujata-Oak.(none)')
```

git commit -m "First Python File"

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git commit -m "first hello.py f
ile"
[main cc74c3c] first hello.py file
1 file changed, 1 insertion(+)
create mode 100644 hi.py
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git branch
* main
```



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```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

Step 6: To Push your changes from local repository to Github/remote Repository:

git push origin master or git push origin main

#git push origin main

Enter username and password

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git push origin main
Username for 'https://github.com': itsSIDDHEE
Password for 'https://itsSIDDHEE@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/itsSIDDHEE/gitdemo16072025.git/'
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git remote set-url origin https://ghp_Wqp73eay7DX0oEe45kUr25mFJ3n6Cs4VOUWi@github.com/itsSIDDHEE/gitdemo16072025
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
```

It says support for password authentication was removed on August 13, 2021.

So we need a new kind of method:

Goto your Github Account → User Profile → Settings → Developer Settings → Personal Access Token → Token(classic) → Generate New token → Generate New Token(Classic)



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← → ↺ github.com/settings/tokens/new

Settings / Developer Settings

Personal access tokens

Fine-grained tokens

Tokens (classic)

New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Note

Token for git practical

What's this token for?

Expiration

No expiration

GitHub strongly recommends that you set an expiration date for your token to help keep your information secure. [Learn more](#)

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations

Click on Generate Token

Copy the token and paste it some location:

#git remote set-url origin https://tokenhere@github.com/user_name/repo_name

#git remote set-url origin

https://ghp_4NZJzecVfkbiMEPOfbR0flzYnl6kel4fTg9G@github.com/sujataoak799/gitdemo11072025

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git remote set-url origin https://ghp_Wqp73eay7DX0oEe45kUr25mFJ3n6Cs4VOUWi@github.com/itsSIDDHEE/gitdemo16072025
```

Again try to Push your changes to Github Repository:

#git push origin main

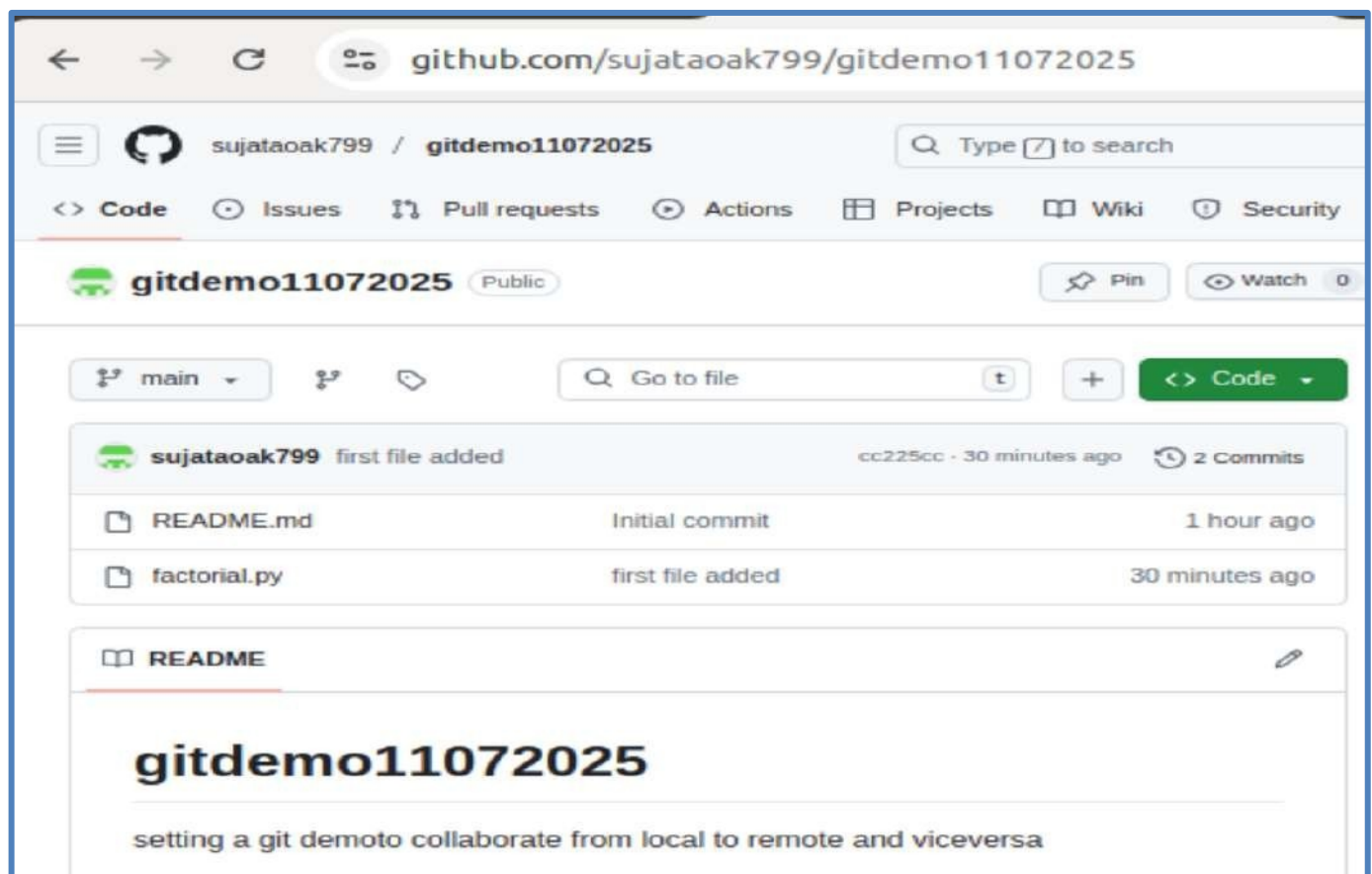


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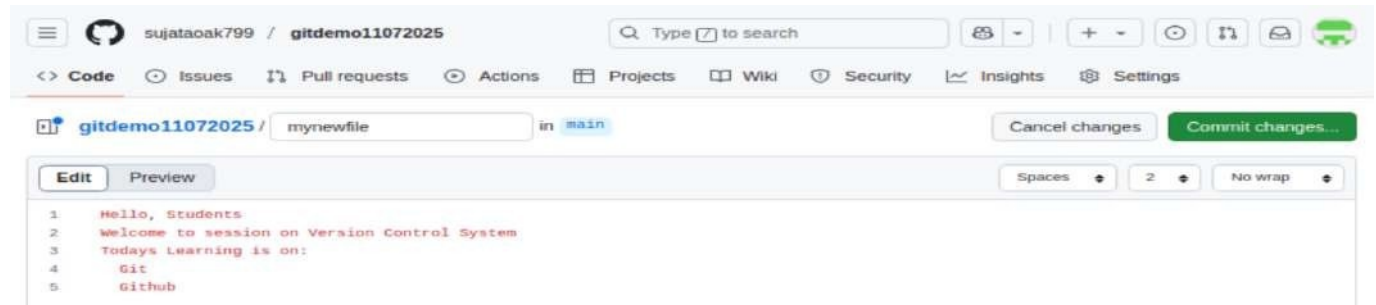
```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 305 bytes | 305.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/itsSIDDHEE/gitdemo16072025
6bf380a..cc74c3c main -> main
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025#
```

This time it is successfully implemented.
Goto Remote Repository and see the file factorial.py

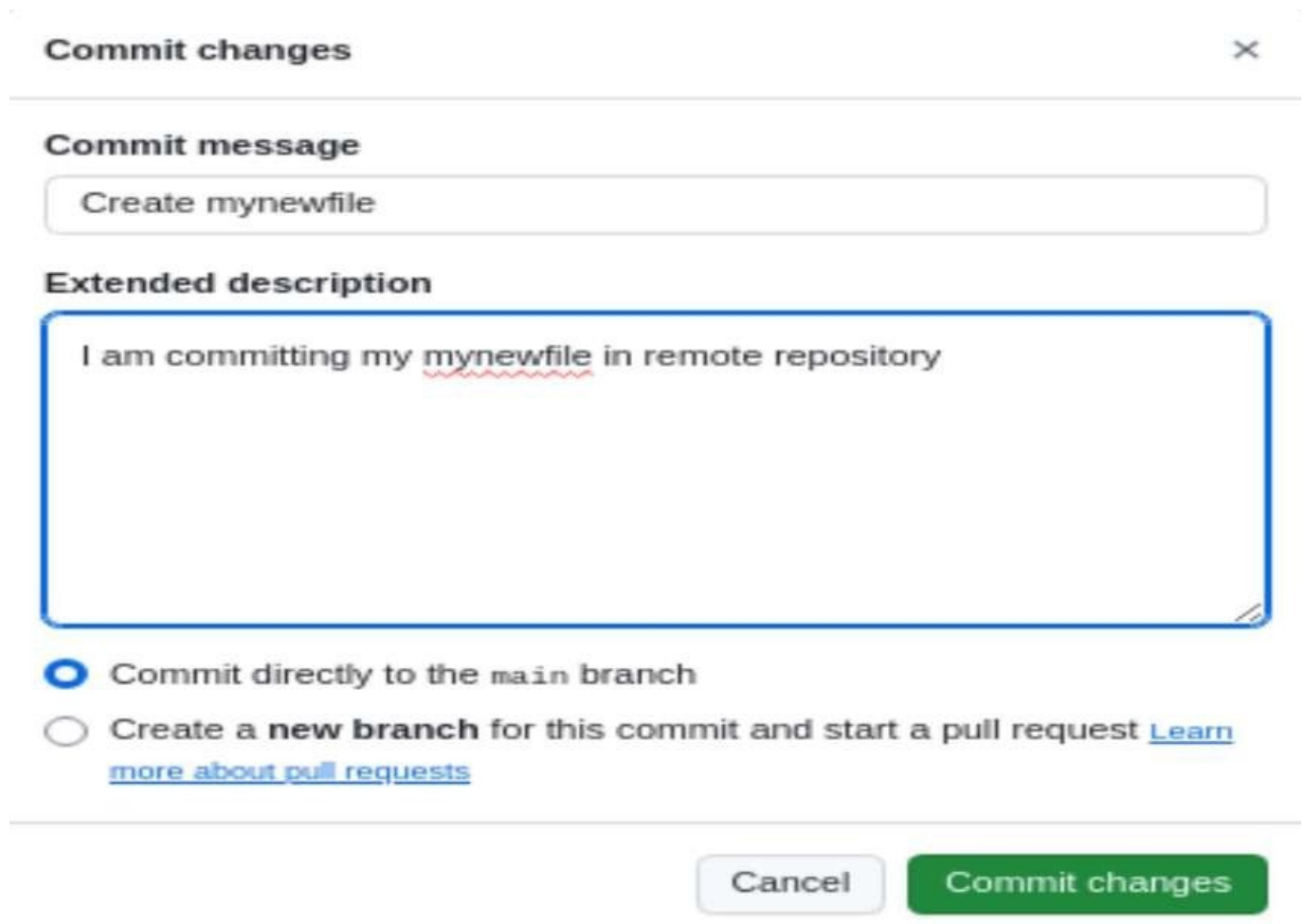




Now I create a new file on my github page: Add file->create new file□Commit changes



Click on Commit Changes

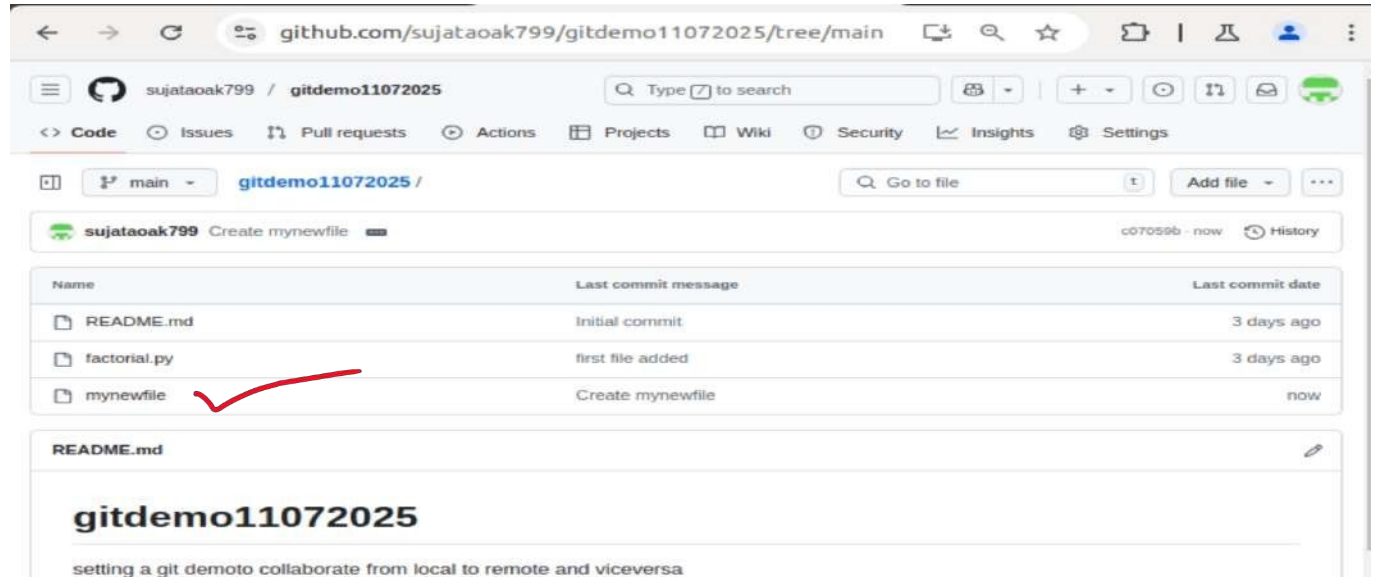


Click on Commit changes

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But this new file is not reflected in my local repository

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# ls -ltr
total 20
-rw-r--r-- 1 root  root   54 Jul 16 10:54 README.md
drwxr-xr-x 3 root  root 4096 Jul 16 10:59 .
-rw-r--r-- 1 root  root  21 Jul 16 10:59 hi.py
drwxrwxr-x 4 apsit apsit 4096 Jul 16 11:19 ..
drwxr-xr-x 8 root  root 4096 Jul 16 11:23 .git
```

#git pull

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 1.00 KiB | 1.00 MiB/s, done.
From https://github.com/itsSIDDHEE/gitdemo16072025
   cc74c3c..c20a3c3  main       -> origin/main
Updating cc74c3c..c20a3c3
Fast-forward
 mynewfile | 4 ++++
 1 file changed, 4 insertions(+)
 create mode 100644 mynewfile
```

#ls -ltr



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```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# ls -altr
total 24
-rw-r--r-- 1 root root 54 Jul 16 10:54 README.md
-rw-r--r-- 1 root root 21 Jul 16 10:59 hi.py
drwxrwxr-x 4 apsit apsit 4096 Jul 16 11:19 ..
-rw-r--r-- 1 root root 73 Jul 16 11:36 mynewfile
drwxr-xr-x 8 root root 4096 Jul 16 11:36 .git
drwxr-xr-x 3 root root 4096 Jul 16 11:36 .
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025#
```

#cat mynewfile

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# cat mynewfile
Hello Students
Welcome to session on version control system
git
github
```

Step7 : To see the logs in online like username, email -id, date, time of creation.

#git log

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git log
commit c20a3c3bd878118a8321a81114fcf6a6528443e7 (HEAD -> main, origin/main, origin/HEAD)
Author: Techiee <shankk905@gmail.com>
Date: Wed Jul 16 11:35:47 2025 +0530

    Create mynewfile1

    I am committing mynewfile 1

commit cc74c3c9fedfcc8847f6bb5b48d0bf4f2c54c5ab
Author: itsSIDDHEE <shankk905@gmail.com>
Date: Wed Jul 16 11:08:18 2025 +0530

    first hello.py file

commit 6bf380a150a4cac0abe88b3323a0674ef179db49
```

To Print list of all commits:

#git log --oneline

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git log --oneline
c20a3c3 (HEAD -> main, origin/main, origin/HEAD) Create mynewfile1
cc74c3c first hello.py file
6bf380a Initial commit
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025#
```



NOTE: Head: The last commit happen on your system

Step 8: To show repository id and other detail or want to know about a particular commit

#git show <commit-id>

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git show cc74c3c
commit cc74c3c9fedfcc8847f6bb5b48d0bf4f2c54c5ab
Author: itsSIDDHEE <shankk905@gmail.com>
Date:   Wed Jul 16 11:08:18 2025 +0530

    first hello.py file

diff --git a/hi.py b/hi.py
new file mode 100644
index 0000000..8cde782
--- /dev/null
+++ b/hi.py
@@ -0,0 +1 @@
+print("hello world")
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025#
```

Step 09: To see the difference in the content of file between first and second commit.

#git diff <latest commit-id> <commit-id>

I will check what is the difference in the file created : mynewfile

#cat mynewfile

```
root@labvm:/home/devasc/Desktop/git-sujata/gitdemo11072025# cat mynewfile
Hello, Students
Welcome to session on Version Control System
Today's Learning is on:
  Git
  Github
```

```
root@labvm:/home/devasc/Desktop/git-sujata/gitdemo11072025# gedit mynewfile
```



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```
Open  mynewfile
/home/devasc/Desktop/git-sujata/gitdemo11072025

1 Hello, Students
2 Welcome to session on Version Control System
3 Today's Learning is on:
4   Git
5   Github
6
7 We Will also learn about branching in git
8 Various Commands in branching are:
9 How to create a branch?
10 How to checkout a branch?
11 How to Delete a branch?
```

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   mynewfile

no changes added to commit (use "git add" and/or "git commit -a")
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git add .
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   mynewfile

root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git commit -m "Added feedback"
[main 4b7713c] Added feedback
1 file changed, 3 insertions(+)
```




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```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git log --oneline
4b7713c (HEAD -> main) Added feedback
c20a3c3 (origin/main, origin/HEAD) Create mynewfile1
cc74c3c first hello.py file
6bf380a Initial commit
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git diff 4b7713c c20a3c3
diff --git a/mynewfile b/mynewfile
index cabc901..168de2c 100644
--- a/mynewfile
+++ b/mynewfile
@@ -2,6 +2,3 @@ Hello Students
 Welcome to session on version control system
 git
 github
-I an learning git branch
-Nice session
-
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025#
```

Step 10: Creating a latter commit and reverting back to see the initial/original content

`git revert<secondcommitID>`

`# git revert 73e6d`



```
GNU nano 0.2 /home/apsit/Desktop/git-SiddhiT/gitdemo16072025#
Revert "Added feedback"

This reverts commit 4b7713cb5330f33494eb6cfe5bea2f796e4e15ac.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is ahead of 'origin/main' by 1 commit.
#   (use "git push" to publish your local commits)
#
# Changes to be committed:
#   modified:   mynewfile
#
```

Save it

```
root@apsit-HP-ProDesk-600-G4-PCI-MT:/home/apsit/Desktop/git-SiddhiT/gitdemo16072025# git revert 4b7713c
[main 6be7f0e] Revert "Added feedback"
1 file changed, 3 deletions(-)
```

TASK: push the changes done in local repository of mynewfile into remote repository

Conclusion:

In this experiment, we understood the use case of Version Control System, its benefits in real time scenario which provides a application of reverting the changes when people are in working in a collaborating environment. Different commands were used for the same such as revert (by using its id), diff for displaying the changes between the initial and latter texts.