

Experiment No 1

Name :- Maaj Alam Bairagdar

Roll No :- 92

Div :- A

Batch :- A4

Install Git and configure it with your username and email :

```
dyp@dyp-OptiPlex-3000: ~  
dyp@dyp-OptiPlex-3000:~$ git config --global user.name "maaj"  
dyp@dyp-OptiPlex-3000:~$ git config --global user.email "maajbairagdar3365@gmail.com"  
dyp@dyp-OptiPlex-3000:~$ git config --list  
user.name=maaj  
user.email=maajbairagdar3365@gmail.com  
dyp@dyp-OptiPlex-3000:~$
```

Initialize a Git repository:

```
dyp@dyp-OptiPlex-3000: ~$ mkdir 92  
dyp@dyp-OptiPlex-3000: ~$ ls  
174 92 Desktop Documents Music MyProject pogo Project snap Templates  
243 akash 2025 DevOps Downloads myproject Pictures Program Public Sushant Videos  
dyp@dyp-OptiPlex-3000: ~$ cd 92  
dyp@dyp-OptiPlex-3000: ~/92$ git init  
Initialized empty Git repository in /home/dyp/92/.git/  
dyp@dyp-OptiPlex-3000: ~/92$
```

Create new repository :-

```
dyp@dyp-OptiPlex-3000: ~/92/Myproject
dyp@dyp-OptiPlex-3000:~/92$ git clone https://github.com/ianmaa/Myproject.git
Cloning into 'Myproject'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 858 bytes | 858.00 KiB/s, done.
dyp@dyp-OptiPlex-3000:~/92$ cd Myproject
dyp@dyp-OptiPlex-3000:~/92/Myproject$ ls
README.md
dyp@dyp-OptiPlex-3000:~/92/Myproject$ cat README.md
# Myproject
dyp@dyp-OptiPlex-3000:~/92/Myproject$ touch exp3.txt
dyp@dyp-OptiPlex-3000:~/92/Myproject$ ls
exp3.txt  README.md
dyp@dyp-OptiPlex-3000:~/92/Myproject$
```

```
dyp@dyp-OptiPlex-3000: ~/92/Myproject
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git add .
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git commit -m "Initial commit"
[main c2d5193] Initial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 exp3.txt
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git remote set-url origin https://ghp_YkgMZuUjQlqgWl7bkDD1F5bSndLypD17B5rm@github.com/ianmaa/Myproject
dyp@dyp-OptiPlex-3000:~/92/Myproject$ 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), 273 bytes | 273.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ianmaa/Myproject
 c8929cb..c2d5193  main -> main
dyp@dyp-OptiPlex-3000:~/92/Myproject$
```

Make Changes :-

```
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git pull origin main
From https://github.com/lammaaj/Myproject
* branch      main      -> FETCH_HEAD
Already up to date.
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git pull origin main
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 949 bytes | 949.00 KiB/s, done.
From https://github.com/lammaaj/Myproject
* branch      main      -> FETCH_HEAD
   66d8f61..3349dd6  main    -> origin/main
Updating 66d8f61..3349dd6
Fast-forward
 txt2 | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 txt2
dyp@dyp-OptiPlex-3000:~/92/Myproject$
```

Create a new Branch :-

```
dyp@dyp-OptiPlex-3000: ~/92/Myproject

dyp@dyp-OptiPlex-3000:~/92/Myproject$ git branch
* main
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git branch DevOps
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git branch
* main
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git add .
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git commit -m "create new branch"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git push origin main
Everything up-to-date
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git checkout DevOps
Switched to branch 'DevOps'
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git branch
* DevOps
  main
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git add .
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git commit -m "add branch"
On branch DevOps
nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git push origin DevOps
Total 0 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'DevOps' on GitHub by visiting:
remote:   https://github.com/lammaaj/Myproject/pull/new/DevOps
remote:
To https://github.com/lammaaj/Myproject
 * [new branch]   DevOps -> DevOps
dyp@dyp-OptiPlex-3000:~/92/Myproject$
```

Delete Branch :-

```
dyp@dyp-OptiPlex-3000: ~/92/Myproject
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git checkout -b newbranch
Switched to a new branch 'newbranch'
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git status
On branch newbranch
nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git branch -D DevOps
Deleted branch DevOps (was 3349dd6).
dyp@dyp-OptiPlex-3000:~/92/Myproject$
```

Merge :-

```
dyp@dyp-OptiPlex-3000: ~/92/Myproject
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git merge origin/DevOps
Already up to date.
dyp@dyp-OptiPlex-3000:~/92/Myproject$ git push origin --delete DevOps
To https://github.com/lammaaj/Myproject
- [deleted]          DevOps
dyp@dyp-OptiPlex-3000:~/92/Myproject$
```