

# Configure Git user

Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual

# 1. Build a branching model to help your team understand the Git workflow for faster integration of work.

```
# Set global Git username and email
  git config --global user.name
  git config --global user.email

# Create and initialize a new Git repository
# Create directory 'practical', navigate to it, and initialize a Git repository
  mkdir practical
  cd practical
  git init
```

```
F:\sem 7\Devops\practical1>git config --global user.name
Jay-Dalsaniya

F:\sem 7\Devops\practical1>
F:\sem 7\Devops\practical1>git config --global user.email
dalsaniyajay111@gmail.com

F:\sem 7\Devops\practical1>mkdir practical

F:\sem 7\Devops\practical1>cd practical

F:\sem 7\Devops\practical1\practical>git init
Initialized empty Git repository in F:/sem 7\Devops/practical1/practical/.git/
```

```
# Add files and commit
  git add welcome.html
# Add welcome.html to staging area and check status
git status
git add .
# Add all files to staging area and check status
```

git status

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Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual

```
F:\sem 7\Devops\practical1\practical>git add welcome.html
F:\sem 7\Devops\practical1\practical>git status
On branch main
No commits yet
Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
        new file: welcome.html

F:\sem 7\Devops\practical1\practical>git add .

F:\sem 7\Devops\practical1\practical>git status
On branch main

No commits yet
Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
        new file: welcome.html
```

# # Commit changes with a message

git commit -m "This Is First Commit"

```
F:\sem 7\Devops\practical1\practical>git commit -m "This Is First Commit"
[main (root-commit) 380316e] This Is First Commit
1 file changed, 1 insertion(+)
create mode 100644 welcome.html
```

# View logs and manage branches
# View commit logs
git log

```
F:\sem 7\Devops\practical1\practical>git commit -m "This Is First Commit"
[main (root-commit) 380316e] This Is First Commit

1 file changed, 1 insertion(+)
create mode 100644 welcome.html

F:\sem 7\Devops\practical1\practical>git log
commit 380316e128e66c36ad2d64d6dda12a28d42635c5 (HEAD -> main)
Author: Jay-Dalsaniya <dalsaniyajay111@gmail.com>
Date: Thu Jul 18 22:11:29 2024 +0530

This Is First Commit
```

#### # List branches

git branch

# # Create a new branch named 'jay\_dalsaniya'

git branch jay dalsaniya

# # Create and switch to 'jayu' git checkout -b jayu

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Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual

# # List branches

git branch

```
F:\sem 7\Devops\practical1\practical>git branch

* main

F:\sem 7\Devops\practical1\practical>git branch jay_dalsaniya

F:\sem 7\Devops\practical1\practical>git checkout -b jayu

Switched to a new branch 'jayu'

F:\sem 7\Devops\practical1\practical>git branch
    jay_dalsaniya

* jayu
    main
```

# # Check the status of the working directory

git status

```
F:\sem 7\Devops\practical1\practical>git status
On branch jayu
nothing to commit, working tree clean
```

```
# Checkout to jay_dalsaniya branch and merge branches
# Switch to 'jay_dalsaniya' branch
git checkout jay_dalsaniya
# Merge 'jayu' into 'jay_dalsaniya'
git merge jayu
```

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Department of Computer Engineering 01CE0717 – DevOps Essentials – Lab Manual

```
F:\sem 7\Devops\practical1\practical>git status
On branch jayu
nothing to commit, working tree clean
F:\sem 7\Devops\practical1\practical>git add .
F:\sem 7\Devops\practical1\practical>git commit -m"add new file "
[jayu 6d90a80] add new file
1 file changed, 1 insertion(+)
create mode 100644 hello.html
F:\sem 7\Devops\practical1\practical>git checkout jay_dalsaniya
Switched to branch 'jay_dalsaniya'
F:\sem 7\Devops\practical1\practical>git merge jayu
Updating 380316e..6d90a80
Fast-forward
hello.html | 1 +
1 file changed, 1 insertion(+)
create mode 100644 hello.html
```

# # Delete 'jayu'

git branch -d jayu

F:\sem 7\Devops\practical1\practical>git branch -d jayu Deleted branch jayu (was 6d90a80).

# # Add remote repository and push to GitHub

### # Add remote GitHub repository

git remote add origin https://github.com/Jay-Dalsaniya/github\_practices.git

### # Push changes to the 'master' branch on GitHub

git push -u origin main

```
F:\sem 7\Devops\practical1\practical>git remote add origin <a href="https://github.com/Jay-Dalsaniya/github_practices-.git">https://github.com/Jay-Dalsaniya/github_practices-.git</a>
F:\sem 7\Devops\practical1\practical>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 243 bytes | 243.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Jay-Dalsaniya/github_practices-.git
 * [new branch] main -> main
branch 'main' set up to track 'origin/main'.
```

92100103336 4