Git Project (2.5 Hours)

Objective:

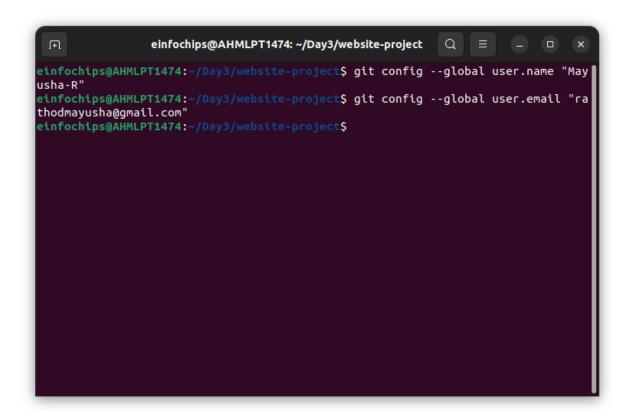
You will work on a project involving a simple website. You will learn and practice various Git concepts including branching, merging, handling merge conflicts, rebasing, pulling, versioning, and rolling back changes. This project is designed to be completed in 1 hour.

Project Setup (15 minutes)

1. **Install Git**: Ensure Git is installed on your system. Verify with git --version.

Set Up Git: Configure your Git username and email:

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



2. Create a GitHub Repository:

O Go to GitHub and create a new repository named website-project.

```
einfochips@AHMLPT1474:~$ git --version
git version 2.34.1
etnfochips@AHMLPT1474:~$ mkdir Day3
etnfochips@AHMLPT1474:~$ cd Day3
etnfochips@AHMLPT1474:~/Day3$
```

Clone the repository to your local machine:

git clone https://github.com/your-username/website-project.git

3. Initialize the Project:

Navigate to the project directory:

cd website-project

```
einfochips@AHMLPT1474: ~/Day3/website-project Q = - □ ×

einfochips@AHMLPT1474: ~$ git --version
git version 2.34.1
einfochips@AHMLPT1474: ~$ mkdir Day3
einfochips@AHMLPT1474: ~$ cd Day3
einfochips@AHMLPT1474: ~/Day3$ git clone https://github.com/Mayusha-R/website-project
Cloning into 'website-project'...
warning: You appear to have cloned an empty repository.
einfochips@AHMLPT1474: ~/Day3$ cd website-project
einfochips@AHMLPT1474: ~/Day3/website-project$
```

Create initial project structure:

mkdir src

touch src/index.html

echo "<!DOCTYPE html><html><head><title>My Website</title></head><body><h1>Welcome to my website!</h1></body></html>" > src/index.html

```
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                einfochips@AHMLPT1474: ~/Day3/website-project
                                                            Q
einfochips@AHMLPT1474:~$ git --version
git version 2.34.1
einfochips@AHMLPT1474:~$ mkdir Day3
einfochips@AHMLPT1474:~$ cd Day3
einfochips@AHMLPT1474:~/Day3$ git clone https://github.com/Mayusha-R/website-pro
ject
Cloning into 'website-project'...
warning: You appear to have cloned an empty repository.
einfochips@AHMLPT1474:~/Day3$ cd website-project
einfochips@AHMLPT1474:~/Day3/website-project$ mkdir src
einfochips@AHMLPT1474:~/Day3/website-project$ touch src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ echo "<!DOCTYPE html><html><head><
title>My Website</title></head><body><h1>Welcome to my website!</h1></body></htm
l>" > src/index.html
bash: !DOCTYPE: event not found
einfochips@AHMLPT1474:~/Day3/website-project$ vim src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$
```

Commit and push the initial project structure:

```
git add .
git commit -m "Initial commit: Added project structure and index.html"
git push origin main
```

```
einfochips@AHMLPT1474: ~/Day3/website-project
einfochips@AHMLPT1474:~/Day3/website-project$ git status
On branch main
No commits yet
Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
einfochips@AHMLPT1474:~/Day3/website-project$ git commit -m "Added project structure and
index.html
[main (root-commit) 9ab4455] Added project structure and index.html
 1 file changed, 9 insertions(+)
create mode 100644 src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git status
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
(use "git branch --unset-upstream" to fixup)
nothing to commit, working tree clean
einfochips@AHMLPT1474:
                                                   project$ git push origin main
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 368 bytes | 368.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Mayusha-R/website-project
 * [new branch]
                         main -> main
 einfochips@AHMLPT1474:~/Day3/website-project$
```

Exercise 1: Branching and Basic Operations (10 minutes) Create a New Branch:

git checkout -b feature/add-about-page

1.

2. Add a New Page:

Create about.html:

touch src/about.html

echo "<!DOCTYPE html><html><head><title>About Us</title></head><body><h1>About Us</h1></body></html>" > src/about.html

Commit and push changes:

git add src/about.html git commit -m "Added about page" git push origin feature/add-about-page

```
einfochips@AHMLPT1474: ~/Day3/website-project
einfochips@AHMLPT1474:~/Day3/website-project$ git add src/about.html
einfochips@AHMLPT1474:~/Day3/website-project$ git status
On branch feature/add-about-page
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file: src/about.html
einfochips@AHMLPT1474:~/Day3/website-project$ git commit -m "Added about page"
[feature/add-about-page e730b72] Added about page
 1 file changed, 9 insertions(+)
 create mode 100644 src/about.html
einfochips@AHMLPT1474:~/Day3/website-project$ git push origin feature/add-about-page
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compression dating up to Compression dating up to Compression objects: 100% (3/3), done.

Writing objects: 100% (4/4), 385 bytes | 385.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Create a pull request for 'feature/add-about-page' on GitHub by visiting:
remote:
               https://github.com/Mayusha-R/website-project/pull/new/feature/add-about
-page
remote:
To https://github.com/Mayusha-R/website-project
 * [new branch]
                        feature/add-about-page -> feature/add-about-page
```

Exercise 2: Merging and Handling Merge Conflicts (15 minutes) Create Another Branch:

git checkout main git checkout -b feature/update-homepage

1. Update the Homepage:

Modify index.html:

echo "Updated homepage content" >> src/index.html

```
einfochips@AHMLPT1474: ~/Day3/website-project
                                                                        Q
einfochips@AHMLPT1474:~/Day3/website-project$ git branch
* feature/add-about-page
 main
einfochips@AHMLPT1474:~/Day3/website-project$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
einfochips@AHMLPT1474:~/Day3/website-project$ git checkout -b feature/update-homepag
Switched to a new branch 'feature/update-homepage'
einfochips@AHMLPT1474:~/Day3/website-project$ git branch
  feature/add-about-page
 main
einfochips@AHMLPT1474:~/Day3/website-project$ vim src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git status
On branch feature/update-homepage
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)
no changes added to commit (use "git add" and/or "git commit -a")
einfochips@AHMLPT1474:~/Day3/website-project$
```

Commit and push changes:

git add src/index.html git commit -m "Updated homepage content" git push origin feature/update-homepage

```
einfochips@AHMLPT1474: ~/Day3/website-project
                                                                                 \circ
einfochips@AHMLPT1474:~/Day3/website-project$ git add src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git status
On branch feature/update-homepage
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
einfochips@AHMLPT1474:~/Day3/website-project$ git commit -m "Homepage updated"
[feature/update-homepage 7828eb2] Homepage updated
 1 file changed, 1 insertion(+)
einfochips@AHMLPT1474:~/Da
                                     vebsite-project$ git push origin feature/update-homepage
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 365 bytes | 365.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature/update-homepage' on GitHub by visiting:
                https://github.com/Mayusha-R/website-project/pull/new/feature/update-hom
remote:
epage
remote:
To https://github.com/Mayusha-R/website-project
 * [new branch]
                          feature/update-homepage -> feature/update-homepage
 einfochips@AHMLPT1474:~/Day3/website-project$
```

2. Create a Merge Conflict:

Modify index.html on the feature/add-about-page branch:

```
git checkout feature/add-about-page
echo "Conflict content" >> src/index.html
git add src/index.html
git commit -m "Added conflicting content to homepage"
git push origin feature/add-about-page
```

```
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                               einfochips@AHMLPT1474: ~/Day3/website-project
                                                                                             a
einfochips@AHMLPT1474:~/Day3/website-project$ git branch
   feature/add-about-page
   main
einfochips@AHMLPT1474:~/Day3/website-project$ git checkout feature/add-about-page
Switched to branch 'feature/add-about-page'
einfochips@AHMLPT1474:~/Day3/website-project$ vim src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git add src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git commit -m "Conflict content added"
[feature/add-about-page 3a93fb9] Conflict content added
 1 file changed, 1 insertion(+)
                                          website-project$ git push origin feature/add-about-page
einfochips@AHMLPT1474:~/Day3
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 395 bytes | 395.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Mayusha-R/website-project
e730b72..3a93fb9 feature/add-about-page -> feature/add-about-page
einfochips@AHMLPT1474:~/Day3/website-project$
```

3. Merge and Resolve Conflict:

Attempt to merge feature/add-about-page into main:

git checkout main git merge feature/add-about-page

there was no conflict here. Fast-forwarding used instead.

Resolve the conflict in src/index.html, then:

```
git add src/index.html
git commit -m "Resolved merge conflict in homepage"
git push origin main
```

Exercise 3: Rebasing (10 minutes)

1. Rebase a Branch:

Rebase feature/update-homepage onto main:

git checkout feature/update-homepage git rebase main

```
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                          einfochips@AHMLPT1474: ~/Day3/website-project
                                                                            Q
einfochips@AHMLPT1474:~/Day3/website-project$ git checkout feature/update-homepage
Switched to branch 'feature/update-homepage'
einfochips@AHMLPT1474:~/Day3/website-project$ git branch
 feature/add-about-page
 main
einfochips@AHMLPT1474:~/Day3/website-project$ git rebase main
Auto-merging src/index.html
CONFLICT (content): Merge conflict in src/index.html
error: could not apply 7828eb2... Homepage updated
hint: Resolve all conflicts manually, mark them as resolved with hint: "git add/rm <conflicted_files>", then run "git rebase --continue". hint: You can instead skip this commit: run "git rebase --skip".
Could not apply 7828eb2... Homepage updated
einfochips@AHMLPT1474:~/Day3/website-project$ git rebase --abort
einfochips@AHMLPT1474:~/Day3/website-project$
```

O Resolve any conflicts that arise during rebase.

```
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                                  einfochips@AHMLPT1474: ~/Day3/website-project
                                                                                                    Q
einfochips@AHMLPT1474:~/Day3/website-project$ git rebase main
Auto-merging src/index.html
CONFLICT (content): Merge conflict in src/index.html
error: could not apply 7828eb2... Homepage updated
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort
Could not apply 7828eb2... Homepage updated
einfochips@AHMLPT1474:~/Day3/website-project$ git rm src/index.html
rm 'src/index.html'
einfochips@AHMLPT1474:~/Day3/website-project$ git rebase --continue
[detached HEAD b06f6e7] Rebased branch
 1 file changed, 10 deletions(-)
delete mode 100644 src/index.html
CONFLICT (modify/delete): src/index.html deleted in HEAD and modified in 1f1638f (Res
olving conflict). Version 1f1638f (Resolving conflict) of src/index.html left in tre
error: could not apply 1f1638f... Resolving conflict
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort
Could not apply 1f1638f... Resolving conflict
einfochips@AHMLPT1474:~/Day3/website-project$ git rebase --skip
Successfully rebased and updated refs/heads/feature/update-homepage.
einfochips@AHMLPT1474:~/Day3/website-project$
```

Push the Rebased Branch:

git push -f origin feature/update-homepage

```
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                            einfochips@AHMLPT1474: ~/Day3/website-project
                                                                                    Q
einfochips@AHMLPT1474:~/Day3/website-project$ git branch
  feature/add-about-page
  main
einfochips@AHMLPT1474:~/Day3/website-project$ git status
On branch feature/update-homepage
nothing to commit, working tree clean
einfochips@AHMLPT1474:~/Day3/website-project$ ls
einfochips@AHMLPT1474:~/Day3/website-project$ ls src
about.html
einfochips@AHMLPT1474:~/Day3/website-project$ git push -f origin feature/update-homep
age
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (1/1), done.
Writing objects: 100% (3/3), 282 bytes | 282.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Mayusha-R/website-project
 + 1f1638f...b06f6e7 feature/update-homepage -> feature/update-homepage (forced updat
einfochips@AHMLPT1474:~/Day3/website-project$
```

Exercise 4: Pulling and Collaboration (10 minutes)

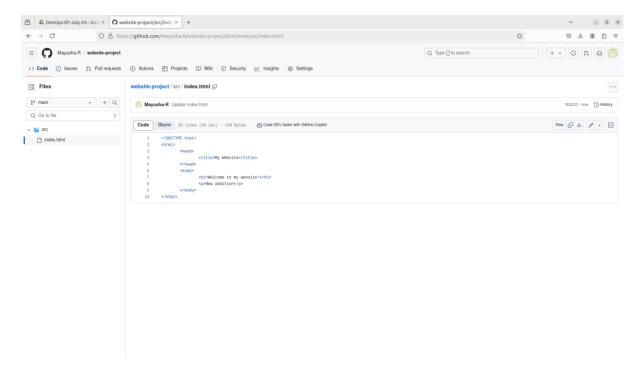
1. Pull Changes from Remote:

Ensure the main branch is up-to-date:

git checkout main git pull origin main

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- 2. Simulate a Collaborator's Change:
 - O Make a change on GitHub directly (e.g., edit index.html).



3. Pull Collaborator's Changes:

Pull the changes made by the collaborator:

git pull origin main

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                            einfochips@AHMLPT1474: ~/Day3/website-project
                                                                                  \alpha
 1 file changed, 10 deletions(-)
 delete mode 100644 src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git merge feature/add-about-page
Already up to date.
einfochips@AHMLPT1474:~/Day3/website-project$ git pull origin main
From https://github.com/Mayusha-R/website-project
                         main -> FETCH_HEAD
 * branch
hint: You have divergent branches and ned to specify how to reconcile them.
hint: You can do so by running one of the following commands sometime before
       git config pull.rebase false # merge (the default strategy)
git config pull.rebase true # rebase
        git config pull.ff only
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
fatal: Need to specify how to reconcile divergent branches.
einfochips@AHMLPT1474:~/Day3/website-project$ git config pull.rebase false einfochips@AHMLPT1474:~/Day3/website-project$ git pull origin main
From https://github.com/Mayusha-R/website-project
                    main -> FETCH_HEAD
* branch
CONFLICT (modify/delete): src/index.html deleted in HEAD and modified in f93fc23dccc0
f6385b09ab9bad4a9fa20b59eac7. Version f93fc23dccc0f6385b09ab9bad4a9fa20b59eac7 of sr
c/index.html left in tree.
Automatic merge failed; fix conflicts and then commit the result.
einfochips@AHMLPT1474:~/Day3/website-project$
```

Exercise 5: Versioning and Rollback (15 minutes)

1. Tagging a Version:

Tag the current commit as v1.0:

git tag -a v1.0 -m "Version 1.0: Initial release" git push origin v1.0

2. Make a Change that Needs Reversion:

Modify index.html:

echo "Incorrect update" >> src/index.html git add src/index.html git commit -m "Incorrect update" git push origin main

```
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                           einfochips@AHMLPT1474: ~/Day3/website-project
                                                                               Q
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 342 bytes | 342.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Mayusha-R/website-project
    f93fc23..12621e8 main -> main
einfochips@AHMLPT1474:~/Day3/website-project$ git revert HEAD
error: commit 12621e8d1fb8be465ed0f504413066f82b04aacf is a merge but no -m option wa
s given.
fatal: revert failed
einfochips@AHMLPT1474:~/Day3/website-project$ ^C
einfochips@AHMLPT1474:~/Day3/website-project$ git branch
  feature/add-about-page
  feature/update-homepage
 * main
einfochips@AHMLPT1474:~/Day3/website-project$ 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)
no changes added to commit (use "git add" and/or "git commit -a")
einfochips@AHMLPT1474:~/Day3/website-project$ git add src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git commit -m "Incorrect update final"
[main a215465] Incorrect update final
 1 file changed, 1 insertion(+)
 einfochips@AHMLPT1474:~/Day
```

3. Revert to a Previous Version:

Use git revert to undo the last commit:

git revert HEAD git push origin main

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                              einfochips@AHMLPT1474: ~/Day3/website-project
                                                                                        a ≡
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)
no changes added to commit (use "git add" and/or "git commit -a")
einfochips@AHMLPT1474:~/Day3/website-project$ git add src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git commit -m "Incorrect update final"
[main a215465] Incorrect update final
1 file changed, 1 insertion(+)
einfochips@AHMLPT1474:~/Day3/website-project$ git revert HEAD
[main 6f956f7] Revert "Incorrect update final"
 1 file changed, 1 deletion(-)
einfochips@AHMLPT1474:~/Day3/website-project$ git push origin main
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 566 bytes | 566.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object. To https://github.com/Mayusha-R/website-project
    12621e8..6f956f7 main -> main
 einfochips@AHMLPT1474:~/Day3/we
```

Alternatively, reset to a specific commit (use with caution): sh Copy code git reset --hard v1.0 git push -f origin main

```
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                           einfochips@AHMLPT1474: ~/Day3/website-project
no changes added to commit (use "git add" and/or "git commit -a")
einfochips@AHMLPT1474:~/Day3/website-project$ git add src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git commit -m "Incorrect update final"
[main a215465] Incorrect update final
 1 file changed, 1 insertion(+)
einfochips@AHMLPT1474:~/Day3/website-project$ git revert HEAD
[main 6f956f7] Revert "Incorrect update final
 1 file changed, 1 deletion(-)
einfochips@AHMLPT1474:~/Da
                                     website-project$ git push origin main
Username for 'https://github.com': ghp_wsr4zby9cEVAYNTCSpYlEgxd0Ufhcw41EW53
Password for 'https://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@github.com':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 566 bytes | 566.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Mayusha-R/website-project
    12621e8..6f956f7 main -> main
einfochips@AHMLPT1474:~/Day3/website-project$ git reset --hard v1.0
HEAD is now at b06f6e7 Rebased branch
einfochips@AHMLPT1474:~/
                                  /3/website-project$ git push -f origin main
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Mayusha-R/website-project
 + 6f956f7...b06f6e7 main -> main (forced update)
einfochips@AHMLPT1474:~/Day3/
```

Extra Activities (10 minutes)

1. Stashing Changes:

Make some local changes without committing:

echo "Uncommitted changes" >> src/index.html

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Stash the changes:

git stash

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Apply the stashed changes:

git stash apply

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                          einfochips@AHMLPT1474: ~/Day3/website-project
                                                                             Q
einfochips@AHMLPT1474:~/Day3/website-project$ git branch
  feature/add-about-page
  feature/update-homepage
einfochips@AHMLPT1474:~/Day3/website-project$ vim src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git stash
Saved working directory and index state WIP on main: ef3e995 Revert "Rebased branch"
einfochips@AHMLPT1474:~/Day3/website-project$ git stash apply
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
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)
no changes added to commit (use "git add" and/or "git commit -a")
einfochips@AHMLPT1474:~/Day3/website-project$ git add src/index.html
einfochips@AHMLPT1474:~/Day3/website-project$ git stash apply
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:
  (use "git restore --staged <file>..." to unstage)
 einfochips@AHMLPT1474:~/Day3/website-project$
```

2. Viewing Commit History:

Use git log to view commit history:

git log --oneline

