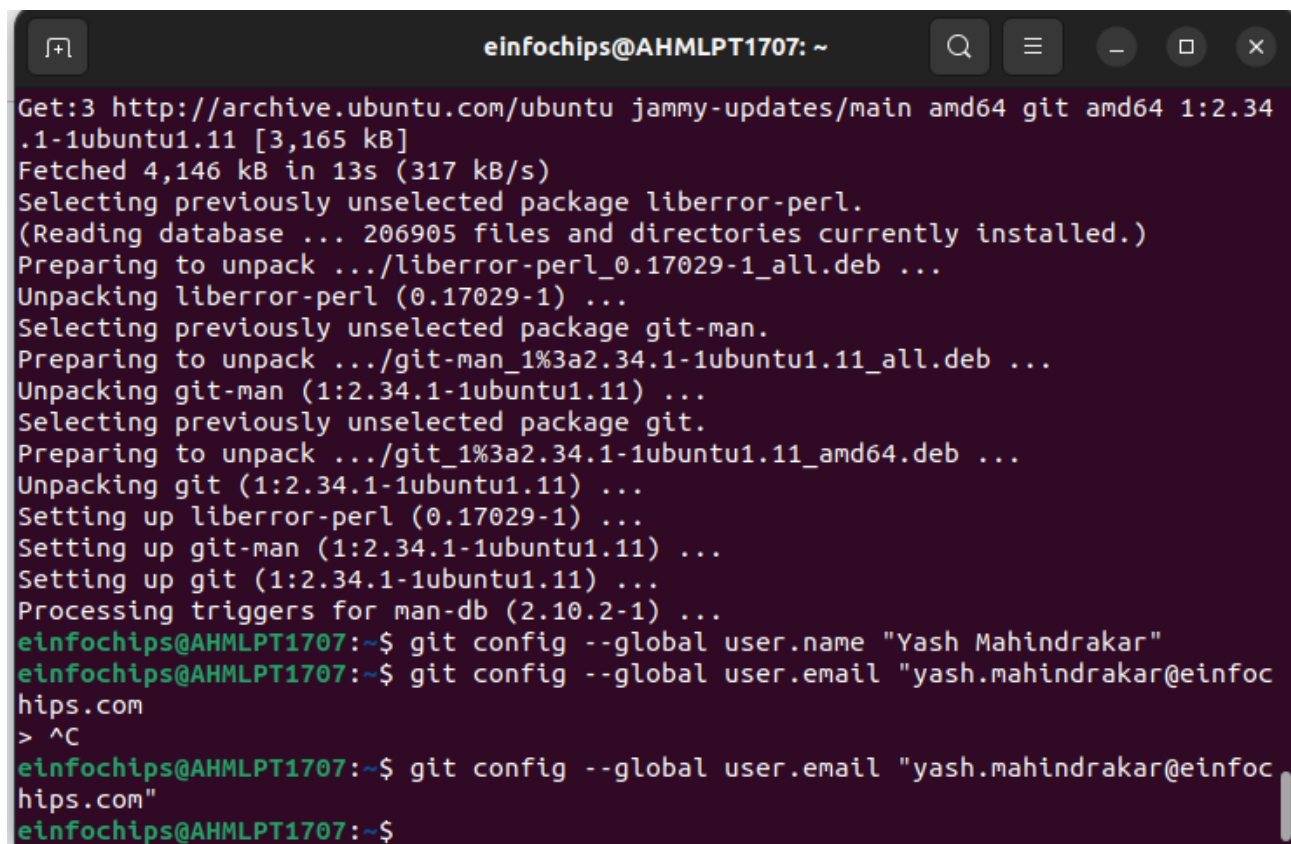



10 July 2024- Wednesday





1. Configured my Git username and email:


A terminal window titled 'einfochips@AHMLPT1707: ~' with standard Ubuntu window controls. The terminal output shows the installation of 'git' from the Ubuntu repository. It starts with 'Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-1ubuntu1.11 [3,165 kB]', followed by 'Fetching 4,146 kB in 13s (317 kB/s)'. It then lists previously unselected packages 'liberror-perl' and 'git-man', and prepares to unpack their respective .deb files. After unpacking, it sets up the packages and processes triggers for 'man-db'. Finally, it shows the user configuring their git identity with 'git config --global user.name "Yash Mahindrakar"' and 'git config --global user.email "yash.mahindrakar@einfochips.com"'. The prompt returns to the shell after each command.


```
einfochips@AHMLPT1707: ~  
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-1ubuntu1.11 [3,165 kB]  
Fetched 4,146 kB in 13s (317 kB/s)  
Selecting previously unselected package liberror-perl.  
(Reading database ... 206905 files and directories currently installed.)  
Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...  
Unpacking liberror-perl (0.17029-1) ...  
Selecting previously unselected package git-man.  
Preparing to unpack .../git-man_1%3a2.34.1-1ubuntu1.11_all.deb ...  
Unpacking git-man (1:2.34.1-1ubuntu1.11) ...  
Selecting previously unselected package git.  
Preparing to unpack .../git_1%3a2.34.1-1ubuntu1.11_amd64.deb ...  
Unpacking git (1:2.34.1-1ubuntu1.11) ...  
Setting up liberror-perl (0.17029-1) ...  
Setting up git-man (1:2.34.1-1ubuntu1.11) ...  
Setting up git (1:2.34.1-1ubuntu1.11) ...  
Processing triggers for man-db (2.10.2-1) ...  
einfochips@AHMLPT1707:~$ git config --global user.name "Yash Mahindrakar"  
einfochips@AHMLPT1707:~$ git config --global user.email "yash.mahindrakar@einfochips.com"  
> ^C  
einfochips@AHMLPT1707:~$ git config --global user.email "yash.mahindrakar@einfochips.com"  
einfochips@AHMLPT1707:~$
```

2. Created a git repo

 **website-project** (Public)

 Pin  Unwatch 1  Fork 0  Star 0

**Set up GitHub Copilot**
Use GitHub's AI pair programmer to autocomplete suggestions as you code.
[Get started with GitHub Copilot](#)

**Add collaborators to this repository**
Search for people using their GitHub username or email address.
[Invite collaborators](#)

Quick setup — if you've done this kind of thing before

HTTPS SSH

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# website-project" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/yashmahi88/website-project.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/yashmahi88/website-project.git
git branch -M main
git push -u origin main
```

3. Committed and pushed the initial project structure

```
einfochips@AHMLPT1707: ~/website-project
le></head><body><h1>Welcome to my website!</h1></body></html>" > src/index.html
bash: !DOCTYPE: event not found
einfochips@AHMLPT1707:~$ vim src/index.html

[1]+  Stopped                  vim src/index.html
einfochips@AHMLPT1707:~$ vim src/index.html

[2]+  Stopped                  vim src/index.html
einfochips@AHMLPT1707:~$ vim src/index.html
einfochips@AHMLPT1707:~$ git add .
fatal: not a git repository (or any parent up to mount point /)
Stopping at filesystem boundary (GIT_DISCOVERY_ACROSS_FILESYSTEM not set).
einfochips@AHMLPT1707:~$ cd website-project
einfochips@AHMLPT1707:~/website-project$ mkdir src
einfochips@AHMLPT1707:~/website-project$ touch src/index.html
einfochips@AHMLPT1707:~/website-project$ vim src/index.html
einfochips@AHMLPT1707:~/website-project$ git add .
einfochips@AHMLPT1707:~/website-project$ git commit -m "Initial Commit: Added pr
object structure and index.html"
[main (root-commit) 56cec0d] Initial Commit: Added project structure and index.h
tml
 1 file changed, 11 insertions(+)
 create mode 100644 src/index.html
einfochips@AHMLPT1707:~/website-project$ git push origin main
```


4. Created a New Branch

```
einfochips@AHMLPT1707: ~/website-project
Stopping at filesystem boundary (GIT_DISCOVERY_ACROSS_FILESYSTEM not set).
einfochips@AHMLPT1707:~$ cd website-project
einfochips@AHMLPT1707:~/website-project$ mkdir src
einfochips@AHMLPT1707:~/website-project$ touch src/index.html
einfochips@AHMLPT1707:~/website-project$ vim src/index.html
einfochips@AHMLPT1707:~/website-project$ git add .
einfochips@AHMLPT1707:~/website-project$ git commit -m "Initial Commit: Added pr
object structure and index.html"
[main (root-commit) 56cec0d] Initial Commit: Added project structure and index.h
tml
1 file changed, 11 insertions(+)
create mode 100644 src/index.html
einfochips@AHMLPT1707:~/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: 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), 386 bytes | 386.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/yashmahi88/website-project
* [new branch]      main -> main
einfochips@AHMLPT1707:~/website-project$
```

5. Created about.html

```
einfochips@AHMLPT1707: ~/website-project
einfochips@AHMLPT1707:~/website-project$ git commit -m "Initial Commit: Added pr
object structure and index.html"
[main (root-commit) 56cec0d] Initial Commit: Added project structure and index.h
tml
1 file changed, 11 insertions(+)
create mode 100644 src/index.html
einfochips@AHMLPT1707:~/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: 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), 386 bytes | 386.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/yashmahi88/website-project
* [new branch]      main -> main
einfochips@AHMLPT1707:~/website-project$ touch src/about.html
einfochips@AHMLPT1707:~/website-project$ nano src/about.html
einfochips@AHMLPT1707:~/website-project$ git add src/about.html
einfochips@AHMLPT1707:~/website-project$ git commit -m "Added about page"
[main 05162df] Added about page
1 file changed, 9 insertions(+)
create mode 100644 src/about.html
```

6. Committed the changes.

```
einfochips@AHMLPT1707: ~/website-project
einfochips@AHMLPT1707:~/website-project$ nano src/about.html
einfochips@AHMLPT1707:~/website-project$ git add src/about.html
einfochips@AHMLPT1707:~/website-project$ git commit -m "Added about page"
[feature/add-about-page 7b2d0e9] Added about page
1 file changed, 1 insertion(+), 1 deletion(-)
einfochips@AHMLPT1707:~/website-project$ git push origin feature/add-about-page
Username for 'https://github.com': ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (8/8), 711 bytes | 711.00 KiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'feature/add-about-page' on GitHub by visiting
:
remote:      https://github.com/yashmahi88/website-project/pull/new/feature/add-
about-page
remote:
To https://github.com/yashmahi88/website-project
 * [new branch]      feature/add-about-page -> feature/add-about-page
einfochips@AHMLPT1707:~/website-project$
```

7. Exercise 2: Merge conflict

a. Update Homepage

```
einfochips@AHMLPT1707: ~/website-project
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
einfochips@AHMLPT1707:~/website-project$ git checkout -b feature/update-homepage
Switched to a new branch 'feature/update-homepage'
einfochips@AHMLPT1707:~/website-project$ nano src/index.html
einfochips@AHMLPT1707:~/website-project$ git add src/index.html
einfochips@AHMLPT1707:~/website-project$ git commit -m "Updated homepage content"
[feature/update-homepage d09de6d] Updated homepage content
1 file changed, 1 insertion(+)
einfochips@AHMLPT1707:~/website-project$ git push origin feature/update-homepage
Username for 'https://github.com': ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9@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), 413 bytes | 413.00 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 visitin
g:
```


b. Merge conflict

```
einfochips@AHMLPT1707: ~/website-project
remote:
To https://github.com/yashmahi88/website-project
* [new branch]      feature/update-homepage -> feature/update-homepage
einfochips@AHMLPT1707:~/website-project$ git checkout feature/add-about-page
Switched to branch 'feature/add-about-page'
einfochips@AHMLPT1707:~/website-project$ nano src/index.html
einfochips@AHMLPT1707:~/website-project$ git add src/index.html
einfochips@AHMLPT1707:~/website-project$ git commit -m "Added conflictiong conte
nt to hamepage"
[feature/add-about-page c968cfa] Added conflictiong content to hamepage
1 file changed, 1 insertion(+)
einfochips@AHMLPT1707:~/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: 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), 417 bytes | 417.00 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/yashmahi88/website-project
7b2d0e9..c968cfa feature/add-about-page -> feature/add-about-page
einfochips@AHMLPT1707:~/website-project$
```

c. Merge and resolved conflict:

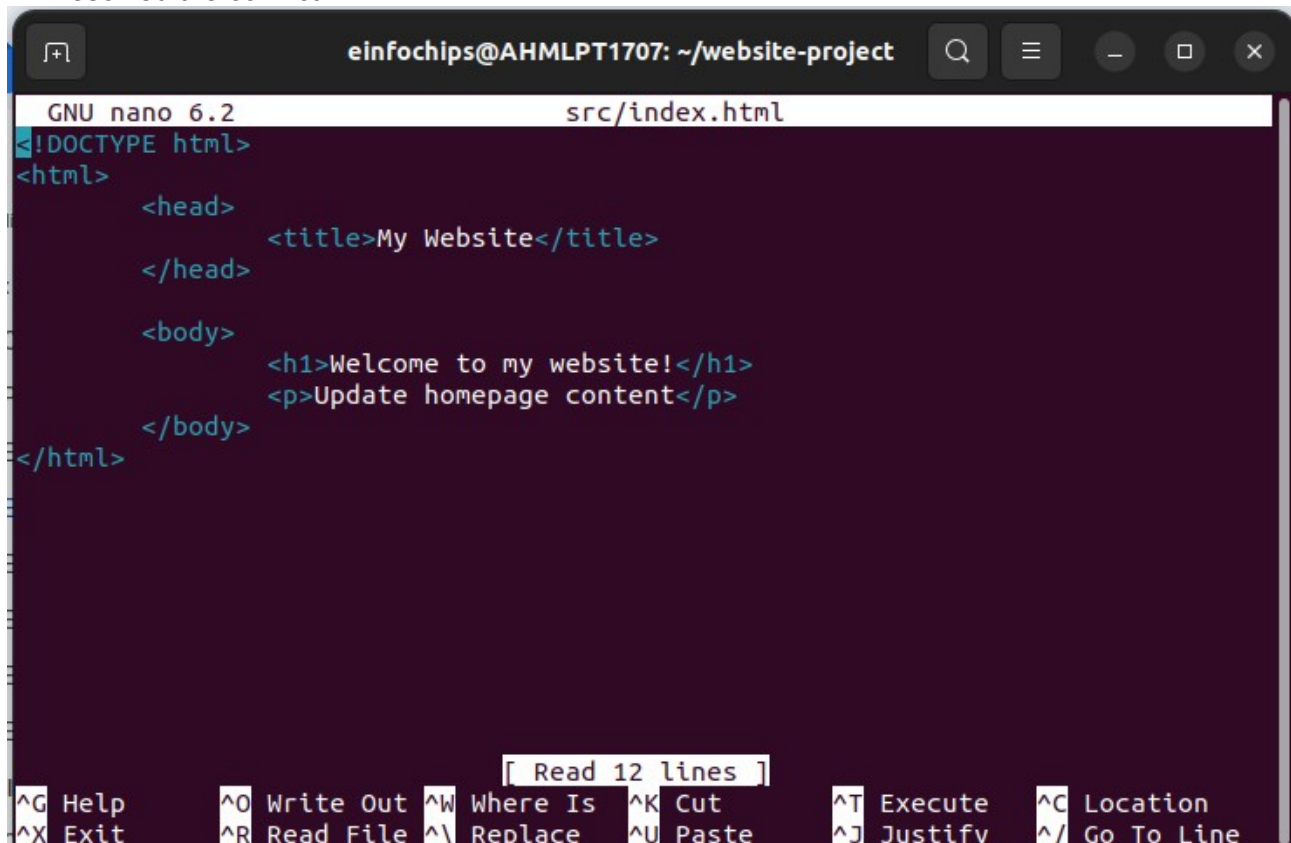
```
einfochips@AHMLPT1707: ~/website-project
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
einfochips@AHMLPT1707:~/website-project$ git merge feature/add-about-page
Updating 05162df..c968cfa
Fast-forward
 src/about.html | 2 +-
 src/index.html | 1 +
 2 files changed, 2 insertions(+), 1 deletion(-)
einfochips@AHMLPT1707:~/website-project$ git add src/index.html
einfochips@AHMLPT1707:~/website-project$ git commit -m "Resolved merge conflict
in homepage"
On branch main
Your branch is ahead of 'origin/main' by 3 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
einfochips@AHMLPT1707:~/website-project$ git push 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/yashmahi88/website-project
56cec0d..c968cfa main -> main
einfochips@AHMLPT1707:~/website-project$
```

Exercise 3:

a. Rebase a branch

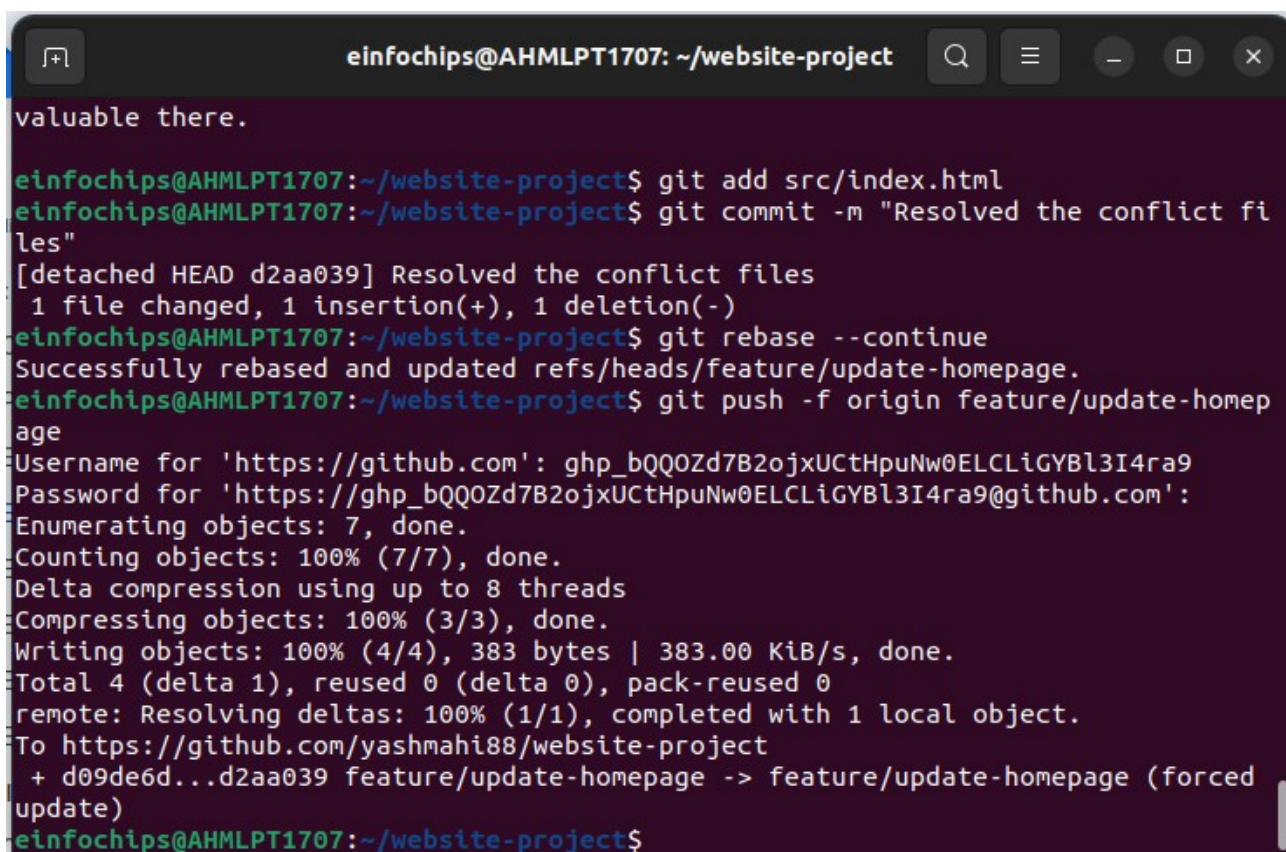
Resolved the conflict.



```
GNU nano 6.2 src/index.html
<!DOCTYPE html>
<html>
  <head>
    <title>My Website</title>
  </head>
  <body>
    <h1>Welcome to my website!</h1>
    <p>Update homepage content</p>
  </body>
</html>

^G Help      ^O Write Out ^W Where Is  ^K Cut      ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace  ^U Paste    ^J Justify  ^_ Go To Line
```

b. Pushed the rebased file.



```
einfochips@AHMLPT1707: ~/website-project
valuable there.

einfochips@AHMLPT1707:~/website-project$ git add src/index.html
einfochips@AHMLPT1707:~/website-project$ git commit -m "Resolved the conflict files"
[detached HEAD d2aa039] Resolved the conflict files
 1 file changed, 1 insertion(+), 1 deletion(-)
einfochips@AHMLPT1707:~/website-project$ git rebase --continue
Successfully rebased and updated refs/heads/feature/update-homepage.
einfochips@AHMLPT1707:~/website-project$ git push -f origin feature/update-homepage
Username for 'https://github.com': ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9@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), 383 bytes | 383.00 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/yashmahi88/website-project
 + d09de6d...d2aa039 feature/update-homepage -> feature/update-homepage (forced update)
einfochips@AHMLPT1707:~/website-project$
```


Exercise 4: Pulling and collab

```
einfochips@AHMLPT1707: ~/website-project
einfochips@AHMLPT1707:~/website-project$ git rebase --continue
Successfully rebased and updated refs/heads/feature/update-homepage.
einfochips@AHMLPT1707:~/website-project$ git push -f origin feature/update-homepage
Username for 'https://github.com': ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9@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), 383 bytes | 383.00 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/yashmahi88/website-project
+ d09de6d...d2aa039 feature/update-homepage -> feature/update-homepage (forced update)
einfochips@AHMLPT1707:~/website-project$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
einfochips@AHMLPT1707:~/website-project$ git pull origin main
From https://github.com/yashmahi88/website-project
* branch          main          -> FETCH_HEAD
Already up to date.
einfochips@AHMLPT1707:~/website-project$
```

Exercise 5:

a. Versioning and rollback

```
einfochips@AHMLPT1707: ~/website-project
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/yashmahi88/website-project
+ d09de6d...d2aa039 feature/update-homepage -> feature/update-homepage (forced update)
einfochips@AHMLPT1707:~/website-project$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
einfochips@AHMLPT1707:~/website-project$ git pull origin main
From https://github.com/yashmahi88/website-project
* branch          main          -> FETCH_HEAD
Already up to date.
einfochips@AHMLPT1707:~/website-project$ git tag -a v1.0 -m "Version 1.0: Initial release"
einfochips@AHMLPT1707:~/website-project$ git push origin v1.0
Username for 'https://github.com': ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9@github.com':
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 185 bytes | 185.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/yashmahi88/website-project
* [new tag]         v1.0 -> v1.0
einfochips@AHMLPT1707:~/website-project$
```

b. Made changes that need revision

```
einfochips@AHMLPT1707: ~/website-project

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

no changes added to commit (use "git add" and/or "git commit -a")
einfochips@AHMLPT1707:~/website-project$ git add .
einfochips@AHMLPT1707:~/website-project$ git commit -m "Incorrect Update"
[main 2969a47] Incorrect Update
 2 files changed, 2 insertions(+)
   create mode 100644 index.html
einfochips@AHMLPT1707:~/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), 448 bytes | 448.00 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/yashmahi88/website-project
   c968cfa..2969a47  main -> main
einfochips@AHMLPT1707:~/website-project$
```

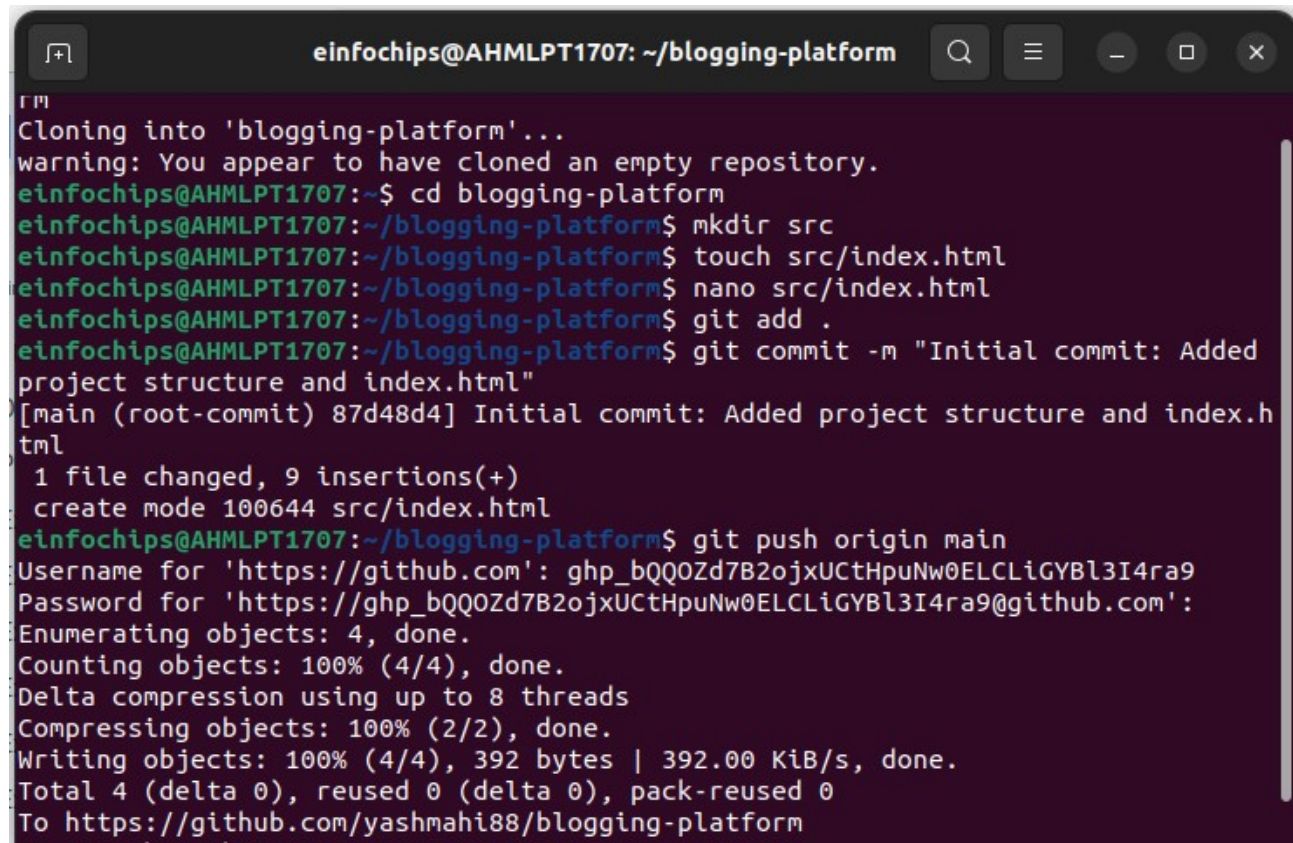
c.Revert to a previous version

```
einfochips@AHMLPT1707: ~/website-project

Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 448 bytes | 448.00 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/yashmahi88/website-project
   c968cfa..2969a47  main -> main
einfochips@AHMLPT1707:~/website-project$ git revert HEAD
[main 63a5779] Revert "Incorrect Update"
 2 files changed, 2 deletions(-)
   delete mode 100644 index.html
einfochips@AHMLPT1707:~/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: 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), 383 bytes | 383.00 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/yashmahi88/website-project
   2969a47..63a5779  main -> main
einfochips@AHMLPT1707:~/website-project$
```


Collab Blogging Platform

Created a github repo and initialized the project

A terminal window with a dark background and light-colored text. The window title is 'einfochips@AHMLPT1707: ~/blogging-platform'. The terminal shows the following commands and output: 1. 'git clone' command cloning into 'blogging-platform'. 2. A warning message: 'warning: You appear to have cloned an empty repository.' 3. 'cd blogging-platform' command. 4. 'mkdir src' command. 5. 'touch src/index.html' command. 6. 'nano src/index.html' command. 7. 'git add .' command. 8. 'git commit -m "Initial commit: Added project structure and index.html"' command. 9. Output: '[main (root-commit) 87d48d4] Initial commit: Added project structure and index.html' followed by a diff summary: '1 file changed, 9 insertions(+)' and 'create mode 100644 src/index.html'. 10. 'git push origin main' command. 11. Username and password prompts for 'https://github.com'. 12. Output: '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), 392 bytes | 392.00 KiB/s, done.', 'Total 4 (delta 0), reused 0 (delta 0), pack-reused 0', and 'To https://github.com/yashmahi88/blogging-platform'.

Ex 1: Branching and Adding features

1. Added a Blog Post Page.

```
einfochips@AHMLPT1707: ~/blogging-platform
GNU nano 6.2 src/blog.html
<!DOCTYPE html>
<html>
  <head>
    <title>Blog Post</title>
  </head>
  <body>
    <h1>My First Blog Post</h1>
  </body>
</html>

[ Read 9 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^/ Go To Line
```

Ex 2: Collaborating with Merging and Handling Merge Conflicts

1. Created another branch

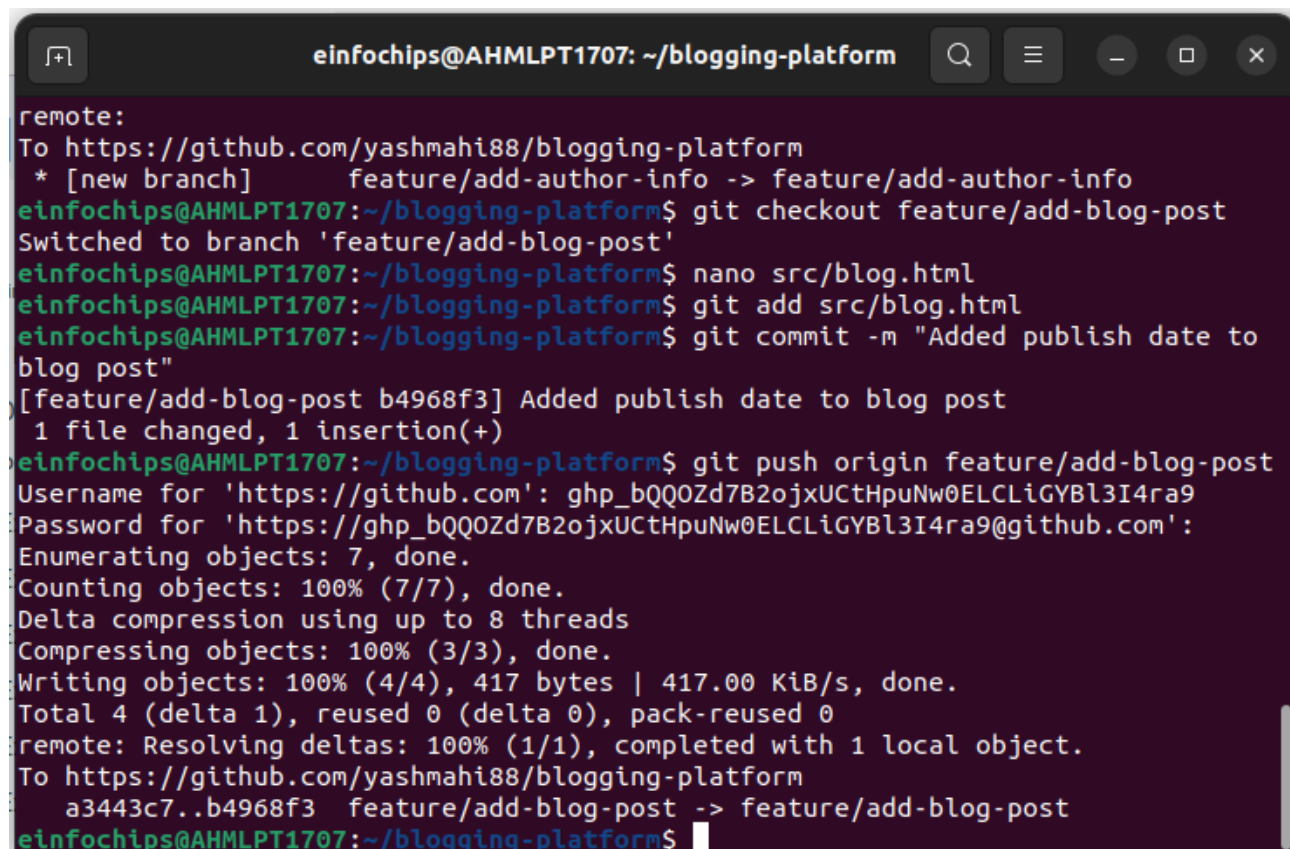
```
einfochips@AHMLPT1707: ~/blogging-platform
einfochips@AHMLPT1707:~/blogging-platform$ git push origin feature/add-blog-post
Username for 'https://github.com': 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
Password for 'https://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@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 414 bytes | 414.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature/add-blog-post' on GitHub by visiting:
remote:   https://github.com/yashmahi88/blogging-platform/pull/new/feature/ad
d-blog-post
remote:
To https://github.com/yashmahi88/blogging-platform
 * [new branch]      feature/add-blog-post -> feature/add-blog-post
einfochips@AHMLPT1707:~/blogging-platform$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
einfochips@AHMLPT1707:~/blogging-platform$ git checkout -b feature/add-author-in
fo
Switched to a new branch 'feature/add-author-info'
einfochips@AHMLPT1707:~/blogging-platform$
```


2.Add author to blog page

```
einfochips@AHMLPT1707: ~/blogging-platform
GNU nano 6.2 src/blog.html *
<!DOCTYPE html>
<html>
  <head>
    <title>Blog Post</title>
  </head>
  <body>
    <h1>My First Blog Post</h1>
    <p>Author: John Doe</p>
  </body>
</html>
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

```
einfochips@AHMLPT1707: ~/blogging-platform
einfochips@AHMLPT1707:~/blogging-platform$ git commit -m "Added author info to b
log post"
[feature/add-author-info 5cf1092] Added author info to blog post
1 file changed, 1 insertion(+)
einfochips@AHMLPT1707:~/blogging-platform$ git push origin feature/add-author-in
fo
Username for 'https://github.com': ghp_bQQOZd7B2ojxUCTHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQOZd7B2ojxUCTHpuNw0ELCLiGYBl3I4ra9@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), 407 bytes | 407.00 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/add-author-info' on GitHub by visitin
g:
remote:      https://github.com/yashmahi88/blogging-platform/pull/new/feature/ad
d-author-info
remote:
To https://github.com/yashmahi88/blogging-platform
 * [new branch]      feature/add-author-info -> feature/add-author-info
einfochips@AHMLPT1707:~/blogging-platform$
```

3. Create a merge conflict



```
einfochips@AHMLPT1707: ~/blogging-platform
remote:
To https://github.com/yashmahi88/blogging-platform
* [new branch]      feature/add-author-info -> feature/add-author-info
einfochips@AHMLPT1707:~/blogging-platform$ git checkout feature/add-blog-post
Switched to branch 'feature/add-blog-post'
einfochips@AHMLPT1707:~/blogging-platform$ nano src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ git add src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ git commit -m "Added publish date to
blog post"
[feature/add-blog-post b4968f3] Added publish date to blog post
1 file changed, 1 insertion(+)
einfochips@AHMLPT1707:~/blogging-platform$ git push origin feature/add-blog-post
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), 417 bytes | 417.00 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/yashmahi88/blogging-platform
a3443c7..b4968f3  feature/add-blog-post -> feature/add-blog-post
einfochips@AHMLPT1707:~/blogging-platform$
```

4. Merge and resolve conflict:


```
einfochips@AHMLPT1707: ~/blogging-platform
Writing objects: 100% (4/4), 417 bytes | 417.00 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/yashmahi88/blogging-platform
   a3443c7..b4968f3  feature/add-blog-post -> feature/add-blog-post
einfochips@AHMLPT1707:~/blogging-platform$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
einfochips@AHMLPT1707:~/blogging-platform$ git merge feature/add-blog-post
Updating a3443c7..b4968f3
Fast-forward
 src/blog.html | 1 +
 1 file changed, 1 insertion(+)
einfochips@AHMLPT1707:~/blogging-platform$ git add src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ git commit -m "Resolved merge conflict in blog post"
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
einfochips@AHMLPT1707:~/blogging-platform$ git push origin main
Username for 'https://github.com': ghp_bQ00Zd7B2oixUCtHpuNw0ELCLiGYBl3I4ra9
```

Exercise 3: Rebasing and Feature Enhancement

1. Rebase a Branch for Comment Feature:

```
einfochips@AHMLPT1707: ~/blogging-platform
Auto-merging src/blog.html
CONFLICT (content): Merge conflict in src/blog.html
error: could not apply 5cf1092... Added author info to blog post
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 5cf1092... Added author info to blog post
einfochips@AHMLPT1707:~/blogging-platform$ nano src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ nano src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ git add src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ git commit
interactive rebase in progress; onto b4968f3
Last command done (1 command done):
  pick 5cf1092 Added author info to blog post
No commands remaining.
You are currently rebasing branch 'feature/add-author-info' on 'b4968f3'.
(all conflicts fixed: run "git rebase --continue")

nothing to commit, working tree clean
einfochips@AHMLPT1707:~/blogging-platform$ git rebase --continue
Successfully rebased and updated refs/heads/feature/add-author-info.
einfochips@AHMLPT1707:~/blogging-platform$
```

exercise 4: Pull changes from remote.

```
Here: see the note about fast forwards in git push - help for details.
einfochips@AHMLPT1707:~/blogging-platform$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
einfochips@AHMLPT1707:~/blogging-platform$ git pull originmain
fatal: 'originmain' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
einfochips@AHMLPT1707:~/blogging-platform$ git pull origin main
From https://github.com/yashmahi88/blogging-platform
* branch          main          -> FETCH_HEAD
Already up to date.
einfochips@AHMLPT1707:~/blogging-platform$
```

exercise 5: Version and rollback

1. Tagging a version

```
einfochips@AHMLPT1707: ~/blogging-platform
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
einfochips@AHMLPT1707:~/blogging-platform$ git pull originmain
fatal: 'originmain' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
einfochips@AHMLPT1707:~/blogging-platform$ git pull origin main
From https://github.com/yashmahi88/blogging-platform
* branch          main          -> FETCH_HEAD
Already up to date.
einfochips@AHMLPT1707:~/blogging-platform$ git tag -a v1.0 -m "Version 1.0: Initial release"
einfochips@AHMLPT1707:~/blogging-platform$ git push origin v1.0
Username for 'https://github.com': ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9@github.com':
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 186 bytes | 186.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/yashmahi88/blogging-platform
* [new tag]          v1.0 -> v1.0
einfochips@AHMLPT1707:~/blogging-platform$
```

2. Made changes that need revision


```
einfochips@AHMLPT1707: ~/blogging-platform
GNU nano 6.2 src/blog.html
<!DOCTYPE html>
<html>
  <head>
    <title>Blog Post</title>
  </head>
  <body>
    <h1>My First Blog Post</h1>
    <p>Published on: July 10, 2024</p>
    <p>Incorrect comment</p>
  </body>
</html>

[ Wrote 11 lines ]
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste       ^J Justify    ^_ Go To Line
```

```
einfochips@AHMLPT1707: ~/blogging-platform
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 186 bytes | 186.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/yashmahi88/blogging-platform
 * [new tag]          v1.0 -> v1.0
einfochips@AHMLPT1707:~/blogging-platform$ nano src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ git add src/blog.html
einfochips@AHMLPT1707:~/blogging-platform$ git commit -m "Incorrect comment update"
[main 3a073df] Incorrect comment update
 1 file changed, 1 insertion(+)
einfochips@AHMLPT1707:~/blogging-platform$ git push origin main
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), 402 bytes | 402.00 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/yashmahi88/blogging-platform
   b4968f3..3a073df  main -> main
einfochips@AHMLPT1707:~/blogging-platform$
```

3.Revert to previous version

```
einfochips@AHMLPT1707: ~/blogging-platform
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 402 bytes | 402.00 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/yashmahi88/blogging-platform
   b4968f3..3a073df  main -> main
einfochips@AHMLPT1707:~/blogging-platform$ git revert HEAD
[main b6b866f] Revert "Incorrect comment update"
   1 file changed, 1 deletion(-)
einfochips@AHMLPT1707:~/blogging-platform$ git push origin main
Username for 'https://github.com': ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9
Password for 'https://ghp_bQQ0Zd7B2ojxUCtHpuNw0ELCLiGYBl3I4ra9@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), 403 bytes | 403.00 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/yashmahi88/blogging-platform
   3a073df..b6b866f  main -> main
einfochips@AHMLPT1707:~/blogging-platform$
```