Git Project

1) git directory created and then initate it as git using git init

```
einfochips@PUNELPT0393:~$ cd Desktop/
einfochips@PUNELPT0393:~/Desktop$ cd learning/
einfochips@PUNELPT0393:~/Desktop/learning$ cd 9july/
einfochips@PUNELPT0393:~/Desktop/learning/9july$ ls
9july
einfochips@PUNELPT0393:~/Desktop/learning/9july$ mkdir git
einfochips@PUNELPT0393:~/Desktop/learning/9july$ ls
9july  git
einfochips@PUNELPT0393:~/Desktop/learning/9july$ cd git
einfochips@PUNELPT0393:~/Desktop/learning/9july/git$ ls
einfochips@PUNELPT0393:~/Desktop/learning/9july/git$ git init
Initialized empty Git repository in /home/einfochips/Desktop/learning/9july/git/.git/
```

2) copy the http url of repository named "website-project" from github to clone it in local machine

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

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git$ git clone https://github.com/Shreyad01/website-project.git
Cloning into 'website-project'...
warning: You appear to have cloned an empty repository.
einfochips@PUNELPT0393:~/Desktop/learning/9july/git$ ls
website-project
```

3) moving in website-project directory and added new directory src and in that directory added new html file.

cd website-project

mkdir src

touch src/index.html

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project$ mkdir src
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project$ touch src/index.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project$ ls
src
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project$ cd src
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ ls
index.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ nano index.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ cat index.html
<!DOCTYPE html>
 <html>
   <head>
     <title>My Website</title>
   </head>
    <body><h1>Welcome to my website!</h1>
    </body>
</html>" > src/index.html
```

4) add ,commit and push that file

git add .

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

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git add .
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git commit -m "Initial commit : Added project structure and index.html"
[master (root-commit) a79186f] Initial commit : Added project structure and index.html
 1 file changed, 11 insertions(+)
 create mode 100644 src/index.html
```

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git branch
* master
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin master
Username for 'https://github.com': Shreyad01
Password for 'https://Shreyad01@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), 398 bytes | 398.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/Shreyad01/website-project.git
 * [new branch]      master -> master
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$
```

Exercise 1:   Branching and Basic Operation

1) create new branch name it " **feature/add-about-page** " then create " **about.html** " file

git checkout -b feature/add-about-page

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout -b feature/add-about-page
Switched to a new branch 'feature/add-about-page'
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ code about.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ cat about.html
<!DOCTYPE html>
<html>
    <head>
        <title>About Us</title>
    </head>
    <body>
        <h1>About Us</h1>
    </body></html>
```

2) add , commit and push

git add src/about.html

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

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git add .
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git commit -m "Added about page"
[feature/add-about-page 095ca6c] Added about page
 1 file changed, 8 insertions(+)
 create mode 100644 src/about.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin feature/add-about-page
Username for 'https://github.com': shreyad01
Password for 'https://shreyad01@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), 397 bytes | 397.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'feature/add-about-page' on GitHub by visiting:
remote:      https://github.com/Shreyad01/website-project/pull/new/feature/add-about-page
remote:
To https://github.com/Shreyad01/website-project.git
 * [new branch]      feature/add-about-page -> feature/add-about-page
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ 
```

Exercise 2 : Merging and Handling Merge Conflicts

1) go to master branch and create another branch " **feature/update-homepage** "

git checkout main

git checkout -b feature/update-homepage

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout -b feature/update-homepage
Switched to a new branch 'feature/update-homepage'
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git branch
  feature/add-about-page
* feature/update-homepage
  master
```

2) update "**index.html** " file

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ code index.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ cat index.html
<!DOCTYPE html>
 <html>
   <head>
     <title>My Website</title>
   </head>
    <body><h1>Welcome to my website!</h1>
      <p> Updated homepage content </p>
    </body>
</html>" > src/index.html
```

3) add, commit and push changes

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git add .
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git commit -m " updated homepage content"
[feature/update-homepage ad679a4]  updated homepage content
 1 file changed, 1 insertion(+)
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin feature/update-homepage
Username for 'https://github.com': shreyad01
Password for 'https://shreyad01@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), 360 bytes | 360.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 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:
remote:      https://github.com/Shreyad01/website-project/pull/new/feature/update-homepage
remote:
To https://github.com/Shreyad01/website-project.git
 * [new branch]      feature/update-homepage -> feature/update-homepage
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ ▯
```

create merge conflict

1) we modify index.html file on feature/add-about-page branch.

git checkout feature/add-about-page

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git branch
  feature/add-about-page
* feature/update-homepage
  master
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout feature/add-about-page
Switched to branch 'feature/add-about-page'
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ code index.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ cat inde
cat: inde: No such file or directory
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ cat index.html
<!DOCTYPE html>
 <html>
   <head>
     <title>My Website</title>
   </head>
    <body><h1>Welcome to my website!</h1>
      <p> Conflict content </p>
    </body>
</html>
```

2) then add , commit and push changes.

git add src/index.html

git commit -m "Added conflicting content to homepage"
git push origin feature/add-about-page

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git add .
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git commit -m "Added conflicting content to homepage"
[feature/add-about-page 87f2dac] Added conflicting content to homepage
 1 file changed, 2 insertions(+), 2 deletions(-)
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin feature/add-about-page
Username for 'https://github.com': Shreyad01
Password for 'https://Shreyad01@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), 468 bytes | 468.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/Shreyad01/website-project.git
   f389012..87f2dac  feature/add-about-page -> feature/add-about-page
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ 
```

Merge and Resolve conflict

1) To merge feature/add-about-page branch in master branch we need to switch to master branch
git checkout main

git merge feature/add-about-page

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git merge feature/add-about-page
Updating a79186f..87f2dac
Fast-forward
 src/about.html | 9 +++++++++
 src/index.html | 4 ++--
 2 files changed, 11 insertions(+), 2 deletions(-)
 create mode 100644 src/about.html
```

Here Fast-forward merge happen because there are no new commits on currrent branch

<h1 style="text-align:center">Exercise 3 : Rebasing</h1>

Rebase : change the base of branch

it move entire branch to begin from the tip of another branch

1) We **rebase** " **feature/update-homepage** " onto " **master** "

git checkout feature/update-homepage

git rebase main

the feature/update-homepage commits are moved on top of the latest commits from the `master` branch.

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout feature/update-homepage
Switched to branch 'feature/update-homepage'
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git rebase master
First, rewinding head to replay your work on top of it...
Applying: Updated homepage content
Using index info to reconstruct a base tree...
M       src/index.html
Falling back to patching base and 3-way merge...
Auto-merging src/index.html
CONFLICT (content): Merge conflict in src/index.html
error: Failed to merge in the changes.
Patch failed at 0001 Updated homepage content
hint: Use 'git am --show-current-patch' to see the failed patch
Resolve all conflicts manually, mark them as resolved with
"git add/rm <conflicted_files>", then run "git rebase --continue".
You can instead skip this commit: run "git rebase --skip".
To abort and get back to the state before "git rebase", run "git rebase --abort".
```

2) Resolve conflict which arise during rebase.

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git mergetool --tool=vimdiff
Merging:
src/index.html

Normal merge conflict for 'src/index.html':
  {local}: modified file
  {remote}: modified file
4 files to edit
```

3) Push the rebase branch
git push -f origin feature/update-homepage

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push -f origin feature/update-homepage
Username for 'https://github.com': Shreyad01
Password for 'https://Shreyad01@github.com':
Everything up-to-date
```

Exercise 4 :Pulling and collaboration

1) first we switch to master branch and then we check master branch is up-to-date

git checkout main

git pull origin main

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout master
M       src/index.html
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git pull origin master
From https://github.com/Shreyad01/website-project
 * branch            master     -> FETCH_HEAD
Already up to date.
```

2) do some change on github repository
3) pull the changes made by the collaborator

git pull origin main

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git pull origin master
From https://github.com/Shreyad01/website-project
 * branch            master     -> FETCH_HEAD
Auto-merging src/index.html
CONFLICT (content): Merge conflict in src/index.html
Automatic merge failed; fix conflicts and then commit the result.
```

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git mergetool --tool=vimdiff
Merging:
src/index.html

Normal merge conflict for 'src/index.html':
  {local}: modified file
  {remote}: modified file
4 files to edit
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ ls
about.html  index.html  index.html.orig
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ cat index.html
echo "<!DOCTYPE html>
<html>
<head>
  <title>My  Website</title>
</head>
<body>
  <h1>Welcome to My  Website !</h1>
  <p> Updated homepage content</p>
  <p> changes done on GitHub</p>
</body>
</html>" >> src/index.html

einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ 
```

Exercise 5 : Versioning nd Rollback

1) Tag the current commit as " v1.0 "

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

git push origin v1.0

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git tag -a v1.0 -m " Version 1.0: Initial release"
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin v1.0
Username for 'https://github.com': shreyad01
Password for 'https://shreyad01@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), 549 bytes | 549.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Shreyad01/website-project.git
 * [new tag]         v1.0 -> v1.0
```

Make a change that needs reversion

1) update index file on features/update-homepage

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ code index.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ cat index.html
<!DOCTYPE html>
 <html>
   <head>
     <title>My Website</title>
   </head>
    <body>
      <h1>Welcome to my website!</h1>
      <p> Conflict content </p>
      <p> changes done on github </p>
      <p>Incorrect update</p>
    </body>
</html>

einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git add .
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git commit -m "Incorrect update"
[feature/update-homepage 4424669] Incorrect update
```

```
[master 5735680] Merging done
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin master
Username for 'https://github.com': shreyad01
Password for 'https://shreyad01@github.com':
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 218 bytes | 218.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0)
To https://github.com/Shreyad01/website-project.git
   19a54c2..5735680  master -> master
```

Revert to previous version

1) using revert we can undo the last commit

git revert HEAD

 git revert : This command is used to create a new commit that undoes the changes made by a previous commit.

HEAD is a reference to the currently checked out commit, which in this case is the most recent commit on your current branch.

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git revert HEAD
error: commit 5735680c60b714b28d68e6db2137b00208f6ebb5 is a merge but no -m option was given.
fatal: revert failed
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git revert -m 5735680c60b714b28d68e6db2137b00208f6ebb5
error: option `mainline' expects a number greater than zero
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git revert -m 1 5735680c60b714b28d68e6db2137b00208f6ebb5
Already up to date!
On branch master
Your branch is up to date with 'origin/master'.


nothing to commit, working tree clean
```

git push origin main

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin master
Username for 'https://github.com': shreyad01
Password for 'https://shreyad01@github.com':
Everything up-to-date
```

2) reset to a specific commit :
 git reset : use to reset the current branch to a specific state
            here we are moving HEAD pointer to point to specific commit (v1.0)
--hard :   reset both working directory and staging area. It discard all changes in working directory and
staging area that are not in commit being reset
git reset --hard v1.0

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git reset --hard v1.0
HEAD is now at e6518b3  updated homepage content
```

git push -f origin main

git push : This command is used to push commits from your local repository to a remote
repository.

-f   : this force git to perform the push operation.

    This can be necessary in cases where you have rewritten history locally and need to
update the remote branch accordingly.

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git pull origin master
From https://github.com/Shreyad01/website-project
 * branch            master     -> FETCH_HEAD
Updating e6518b3..5735680
Fast-forward
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push -f origin master
Username for 'https://github.com': shreyad01
Password for 'https://shreyad01@github.com':
Everything up-to-date
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ []
```

Stashing changes

git stash

1) git stash : It is used to temporarily store changes that are not ready to be committed yet.

      It saves the modifications in working directory and staged changes onto a stack of

stashes.

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git stash
Saved working directory and index state WIP on master: 5735680 merging done
```

Apply the stashed changes:

git stash apply

1) git stash apply : command is used to apply the most recent stash from the stash stack back
into your working directory.

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git stash apply
On branch master
Your branch is up to date with 'origin/master'.

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:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git status
On branch master
Your branch is up to date with 'origin/master'.

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:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ []
```

Viewing commit history :

use git log to view commit history :

git log -–oneline

git log –oneline : This command is used to display commit history in a single line format

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git log --oneline
5735680 (HEAD -> master, origin/master) merging done
e6518b3 (tag: v1.0)  updated homepage content
19a54c2 Update index.html
6698ce8 (origin/feature/add-about-page, feature/add-about-page) Added conflicting content to homepage
095ca6c Added about page
b940c1d  Initial commit: Added Project structure and index.html
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$
```

Cherry-Picking Commits :

Cherry-picking : Use to the process of selecting and applying a specific commit from one branch onto another branch.

This allows you to pick individual commits and apply them to your current branch,

1) create new branch " feature/cherry-pick " and cherry-pick commit from another branch :

git checkout -b feature/cherry-pick

git cherry-pick <commit-hash>

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout -b feature/cherry-pick
Switched to a new branch 'feature/cherry-pick'
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git cherry-pick 19a54c2
Auto-merging src/index.html
CONFLICT (content): Merge conflict in src/index.html
error: could not apply 19a54c2... Update index.html
hint: after resolving the conflicts, mark the corrected paths
hint: with 'git add <paths>' or 'git rm <paths>'
hint: and commit the result with 'git commit'
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git mergetool --tool=vimdiff
Merging:
src/index.html

Normal merge conflict for 'src/index.html':
  {local}: modified file
  {remote}: modified file
4 files to edit
```

2) After resolving conflict use " git Cherry-pick --continue " to continue Cherry-pick operation and push to remote repository .

git push origin feature/cherry-pick

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git cherry-pick --continue
[feature/cherry-pick bd6ecab] Update index.html
 Author: Shreyad01 <167431152+Shreyad01@users.noreply.github.com>
 Date: Sat Jul 13 17:33:30 2024 +0530
 1 file changed, 5 deletions(-)
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git push origin feature/cherry-pick
Username for 'https://github.com': shreyad01
Password for 'https://shreyad01@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), 651 bytes | 651.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature/cherry-pick' on GitHub by visiting:
remote:      https://github.com/Shreyad01/website-project/pull/new/feature/cherry-pick
remote:
To https://github.com/Shreyad01/website-project.git
 * [new branch]      feature/cherry-pick -> feature/cherry-pick
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$
```

Interactive Rebase :

Use interactive rebase to sqash commits :

git checkout main
git rebase -i HEAD~3

git rebase -i HEAD~3 : This command use to reapply commit on top of HEAD~3 tip

Here -i = interactive : This enables the interactive mode , here we specify how git should reapply each commit

HEAD~3 : points to the commit that is three commits behind the current HEAD.

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git rebase -i HEAD~3
Auto-merging src/index.html
CONFLICT (content): Merge conflict in src/index.html
error: could not apply 19a54c2... Update index.html
Resolve all conflicts manually, mark them as resolved with
"git add/rm <conflicted_files>", then run "git rebase --continue".
You can instead skip this commit: run "git rebase --skip".
To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply 19a54c2... Update index.html
```

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git mergetool --tool=vimdiff
Merging:
src/index.html

Normal merge conflict for 'src/index.html':
  {local}: modified file
  {remote}: modified file
4 files to edit
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git add .
```

After merging conflict we continue rebase

```
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ git rebase --continue
[detached HEAD 1cfe560] Update index.html
 Author: Shreyad01 <167431152+Shreyad01@users.noreply.github.com>
 2 files changed, 18 insertions(+)
 create mode 100644 src/index.html.orig
Successfully rebased and updated refs/heads/master.
einfochips@PUNELPT0393:~/Desktop/learning/9july/git/website-project/src$ 
```