

Section 0: Install GIT & make sure it is added into PATH:

```
C:\Users\PAGAWDE>git --version
git version 2.31.1.windows.1

C:\Users\PAGAWDE>
```

```
Command Prompt
Microsoft Windows [Version 10.0.19042.508]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\PAGAWDE>echo %PATH%
C:\Program Files\AdoptOpenJDK\jdk-15.0.0-hotspot\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\WINDOWS\System32\
m32\OpenSSH\;C:\Users\PAGAWDE\AppData\Local\Microsoft\WindowsApps;C:\Users\PAGAWDE\AppData\Local\Programs\Git\cmd;C:\Users\PAGAWDE\A
bin
```

1. Create a directory 'project_dir' & cd to 'project_dir'

For creating directory: **mkdir project_dir**

```
MINGW64/c:/Users/PAGAWDE/Desktop/Assignments-Parag-G/Github-Assignments/project_dir
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments (master)
$ cd project_dir/
```

2. Initialize git version database

```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git init
Initialized empty Git repository in C:/Users/PAGAWDE/Desktop/Assignments-Parag-G/Github-Assignments/project_dir/.git/
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ |
```

3. Create a new file index.html

```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ touch index.html
```

4. Check the git status. You should find index.html as untracked file

```
pagawde@LIN24004342 MINGW64 ~/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
pagawde@LIN24004342 MINGW64 ~/Desktop/project_dir (master)
```

5. Stage the index.html file

```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git add index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ |
```

6. Commit index.html

```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git commit -m "Added project_dir"
[master (root-commit) e6ab263] Added project_dir
Committer: Parag G <parag.gawde@capgemini.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

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

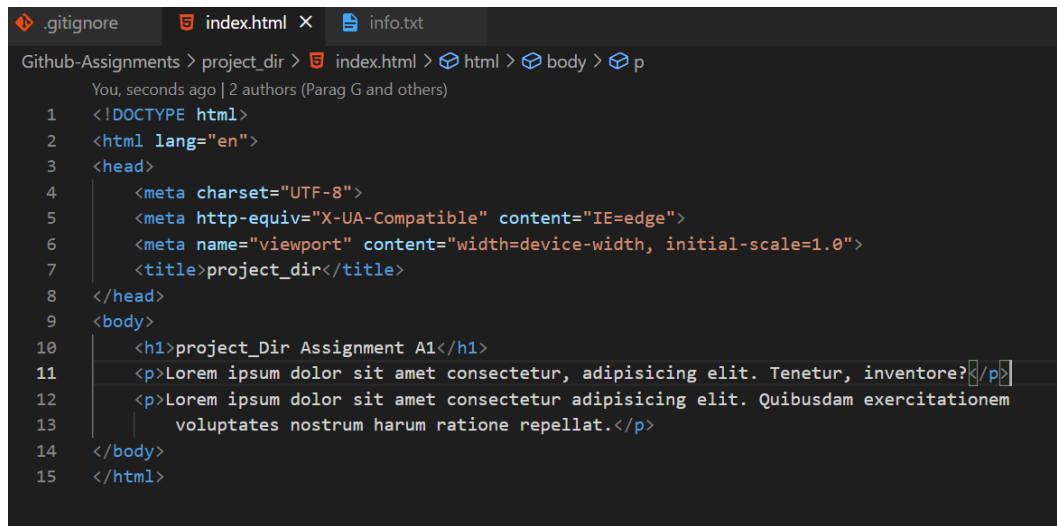
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ |
```

7. Make a few changes in index.html & create a new file info.txt



```
.gitignore  index.html  info.txt
Github-Assignments > project_dir > index.html > html > body > p
You, seconds ago | 2 authors (Parag G and others)
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>project_dir</title>
8  </head>
9  <body>
10     <h1>project_Dir Assignment A1</h1>
11     <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Tenetur, inventore?</p>
12     <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quibusdam exercitationem
13         voluptates nostrum harum ratione repellat.</p>
14 </body>
15 </html>
```

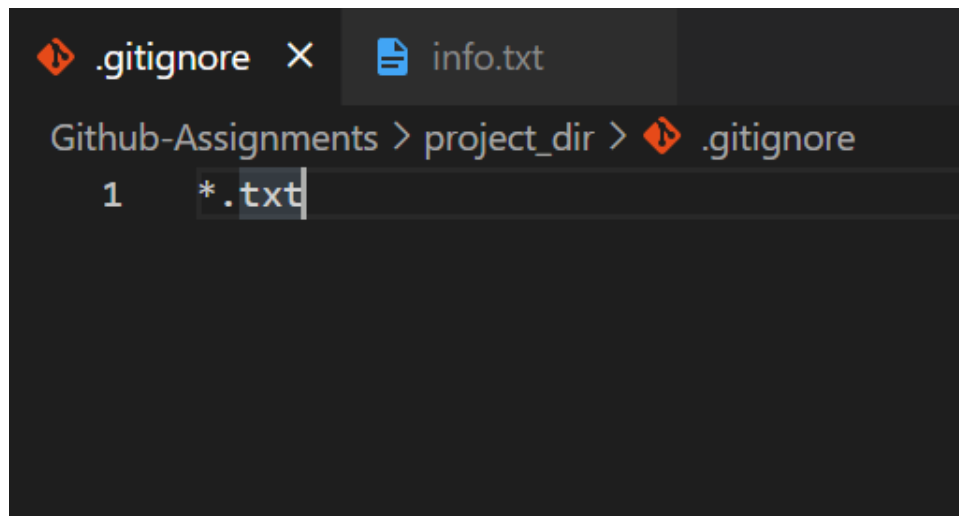
8. Check git status. You should find index.html & info.txt as untracked files

```
MINGW64/c/Users/PAGAWDE/Desktop/Assignments-Parag-G/Github-Assignments/project_dir
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch 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

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

no changes added to commit (use "git add" and/or "git commit -a")
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ |
```

9. Configure git to ignore all txt files



```
.gitignore
1 *.txt
```

10. Again, check the git status. You should find only index.html as untracked file

```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ |
```

11. Stage and commit index.html

```
MINGW64/c/Users/PAGAWDE/Desktop/Assignments-Parag-G/Github-Assignments/project_dir

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git add .
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   .gitignore
        new file:   index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git commit -m "Adding gitignore and modifying index.html"
[master (root-commit) cd68c94] Adding gitignore and modifying index.html
Committer: Parag G <parag.gawde@capgemini.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

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

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

2 files changed, 14 insertions(+)
create mode 100644 .gitignore
create mode 100644 index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch master
nothing to commit, working tree clean

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ |
```

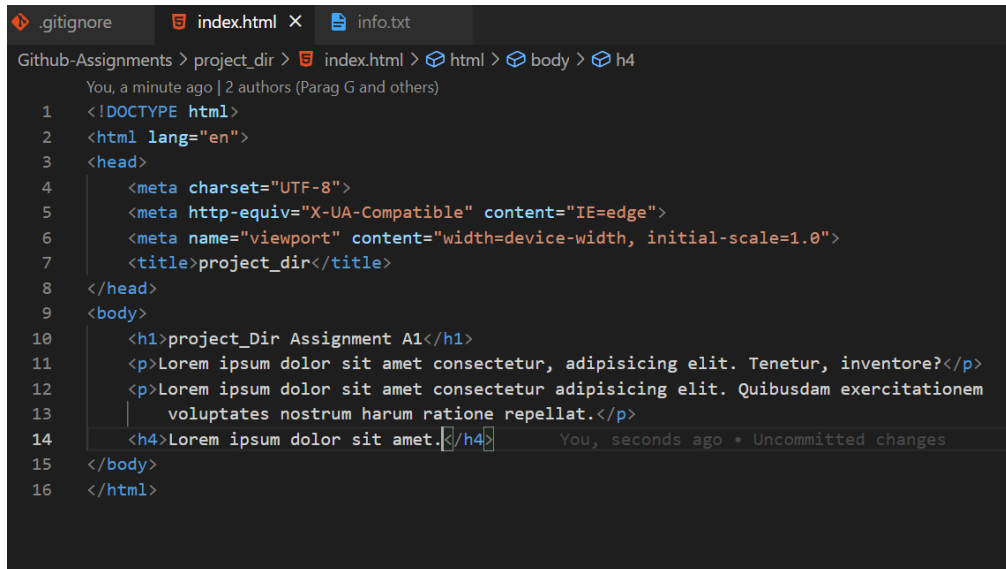
12. Log all your comments so far

```
MINGW64/c/Users/PAGAWDE/Desktop/Assignments-Parag-G/Github-Assignments/project_dir

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git log --all
commit cd68c945b73daeef87c4633daa1cbd24636e0d5 (HEAD -> master)
Author: Parag G <parag.gawde@capgemini.com>
Date:   Mon May 17 23:39:31 2021 +0530

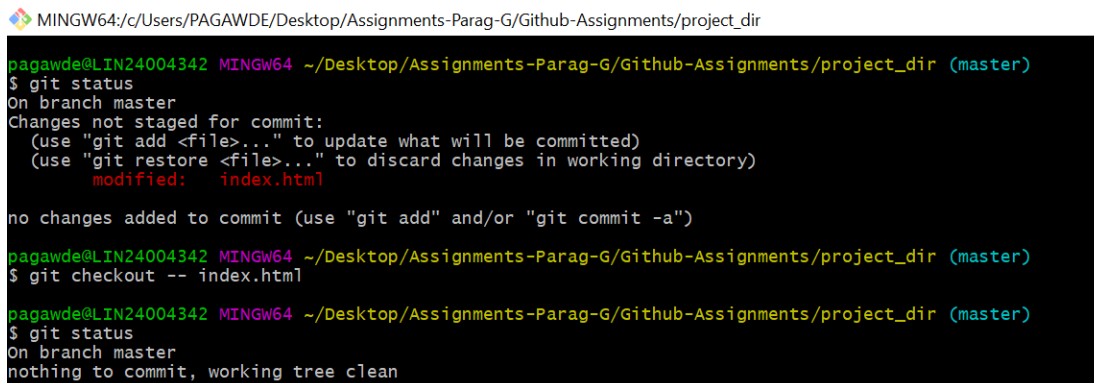
    Adding gitignore and modifying index.html
```

13. Make some changes in index.html



```
.gitignore  index.html x  info.txt
Github-Assignments > project_dir > index.html > html > body > h4
You, a minute ago | 2 authors (Parag G and others)
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>project_dir</title>
8  </head>
9  <body>
10     <h1>project_Dir Assignment A1</h1>
11     <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Tenetur, inventore?</p>
12     <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quibusdam exercitationem
13         voluptates nostrum harum ratione repellat.</p>
14     <h4>Lorem ipsum dolor sit amet.</h4>
15 </body>
16 </html>
```

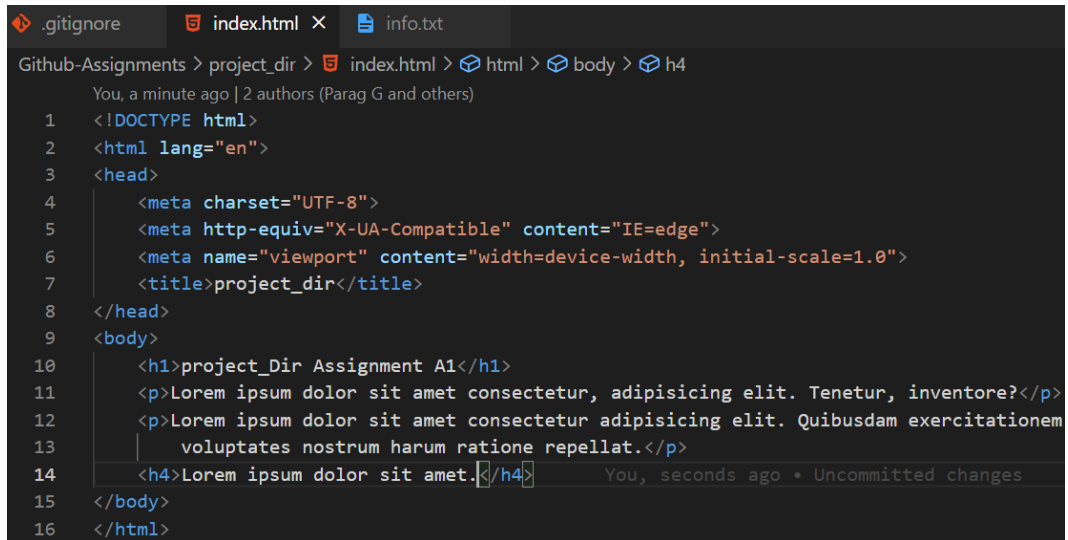
14. Revert the changes made in the previous step using git command



```
MINGW64:/c/Users/PAGAWDE/Desktop/Assignments-Parag-G/Github-Assignments/project_dir
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch 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

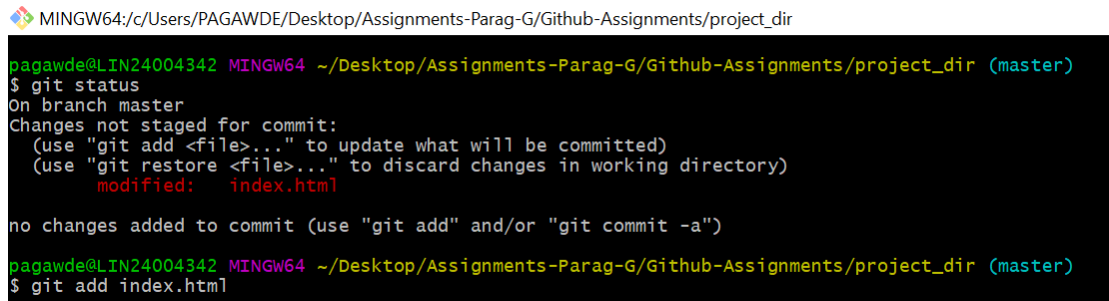
no changes added to commit (use "git add" and/or "git commit -a")
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git checkout -- index.html
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch master
nothing to commit, working tree clean
```

15. Again change index.html



```
.gitignore index.html x info.txt
Github-Assignments > project_dir > index.html > html > body > h4
You, a minute ago | 2 authors (Parag G and others)
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>project_dir</title>
8 </head>
9 <body>
10   <h1>project_Dir Assignment A1</h1>
11   <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Tenetur, inventore?</p>
12   <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quibusdam exercitationem
13     voluptates nostrum harum ratione repellat.</p>
14   <h4>Lorem ipsum dolor sit amet.</h4>
15 </body>
16 </html>
```

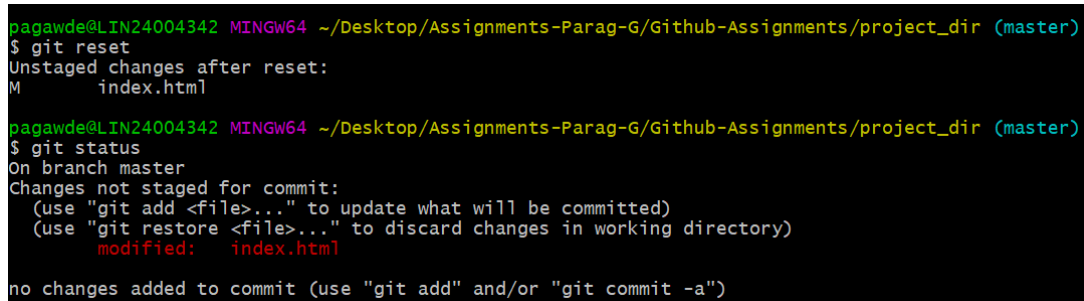
16. Stage index.html



```
MINGW64/c/Users/PAGAWDE/Desktop/Assignments-Parag-G/Github-Assignments/project_dir
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch 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")
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git add index.html
```

17. Revert back the last stage

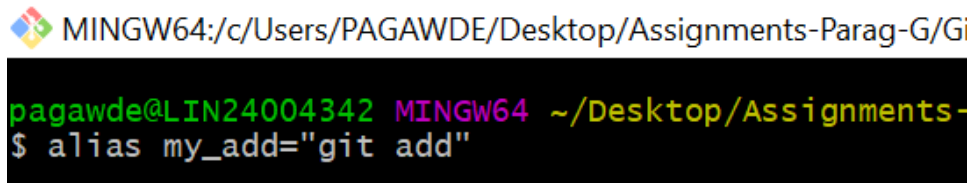


```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git reset
Unstaged changes after reset:
M   index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch 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")
```

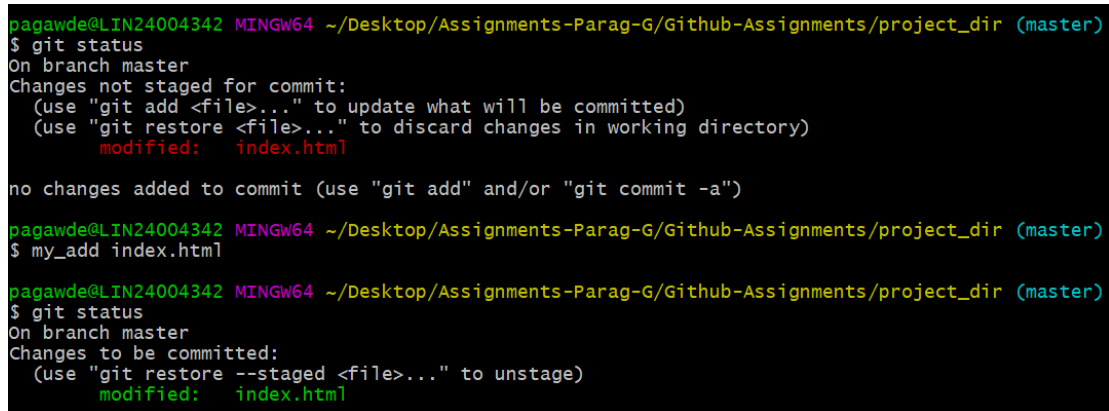
18. Rename 'add' command to 'my-add'



A terminal window with a dark background. The title bar shows a Windows icon and the path 'MINGW64:/c/Users/PAGAWDE/Desktop/Assignments-Parag-G/Gi'. The prompt is 'pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-'. The command entered is '\$ alias my_add="git add"'.

```
MINGW64:/c/Users/PAGAWDE/Desktop/Assignments-Parag-G/Gi
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-
$ alias my_add="git add"
```

19. Using my-add command Stage index.html & commit the changes



A terminal window showing the execution of 'git status' and 'my_add index.html'. The output of 'git status' shows 'Changes not staged for commit' and 'modified: index.html'. The 'my_add' command stages the file. A second 'git status' shows 'Changes to be committed' and 'modified: index.html'.

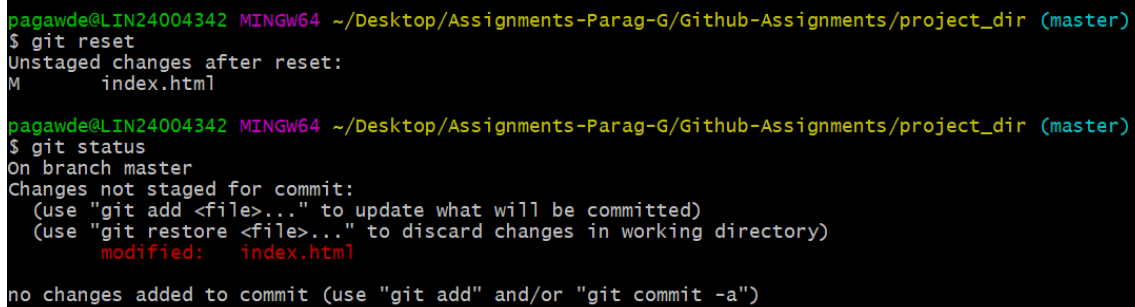
```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ my_add index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html
```

20. Revert the last commit



A terminal window showing the execution of 'git reset' and 'git status'. The output of 'git reset' shows 'Unstaged changes after reset:' and 'M index.html'. The 'git status' command shows 'Changes not staged for commit' and 'modified: index.html'.

```
pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git reset
Unstaged changes after reset:
M   index.html

pagawde@LIN24004342 MINGW64 ~/Desktop/Assignments-Parag-G/Github-Assignments/project_dir (master)
$ git status
On branch 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")
```