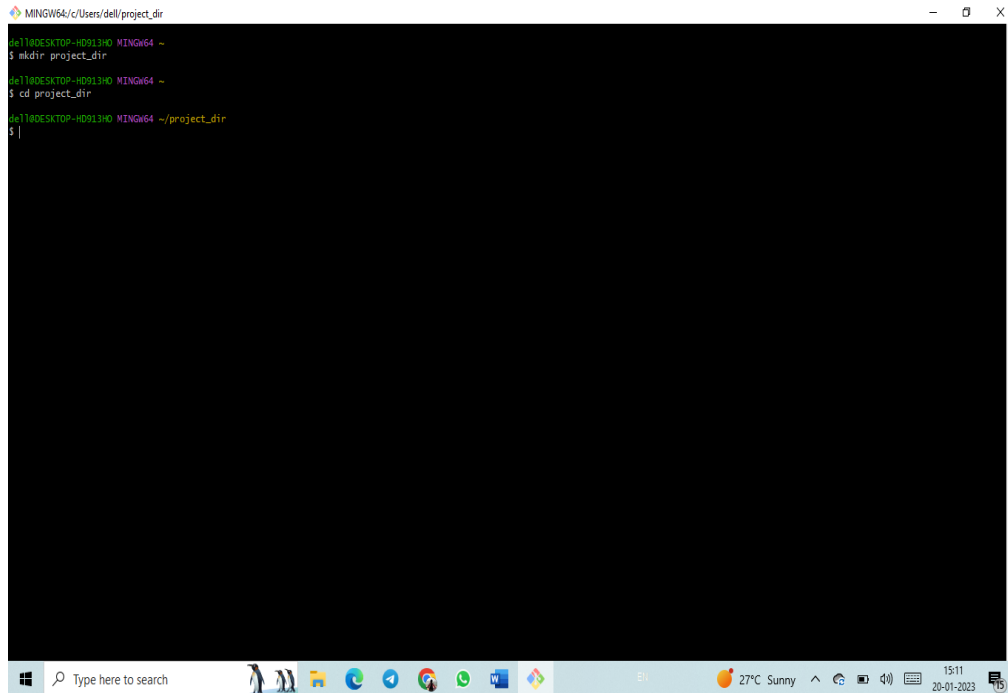


# ASSIGNMENT OF GIT AND GITHUB

## PART 1

### BASIC GIT COMMANDS

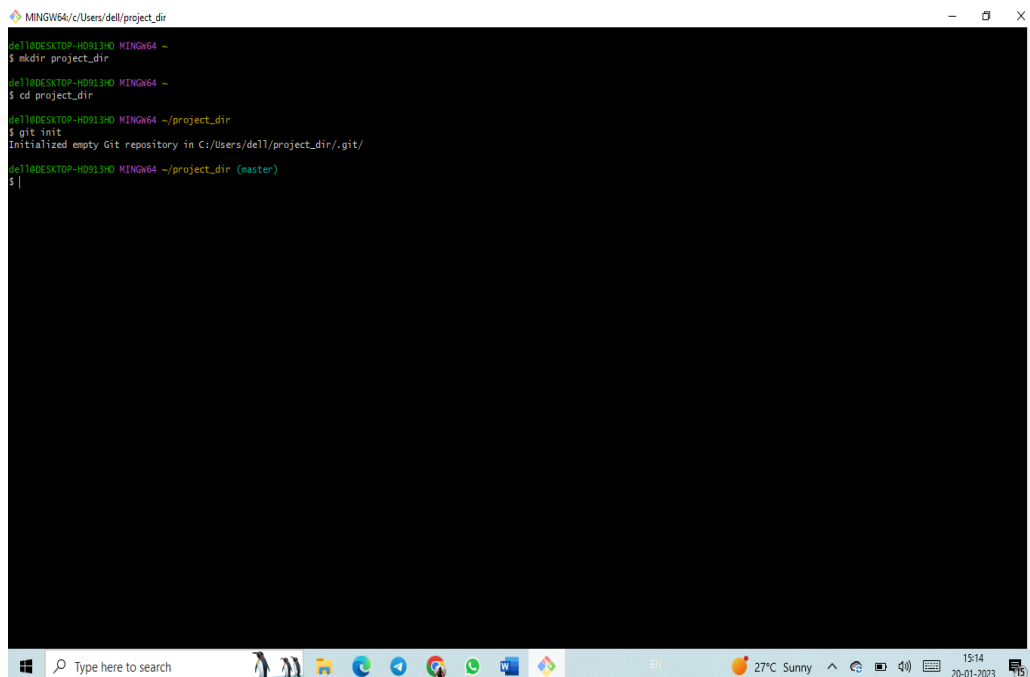
1. Create a directory 'project\_dir' & cd to 'project\_dir'.



```
MINGW64/c/Users/dell/project_dir
del11@DESKTOP-HD913HO MINGW64 ~
$ mkdir project_dir
del11@DESKTOP-HD913HO MINGW64 ~
$ cd project_dir
del11@DESKTOP-HD913HO MINGW64 ~/project_dir
$ |
```

A screenshot of a Windows terminal window titled 'MINGW64/c/Users/dell/project\_dir'. The terminal shows the execution of the following commands: `mkdir project_dir` and `cd project_dir`. The prompt changes from `del11@DESKTOP-HD913HO MINGW64 ~` to `del11@DESKTOP-HD913HO MINGW64 ~/project_dir`. The terminal window has a standard Windows taskbar at the bottom with various application icons and system information like '27°C Sunny' and '20-01-2023'.

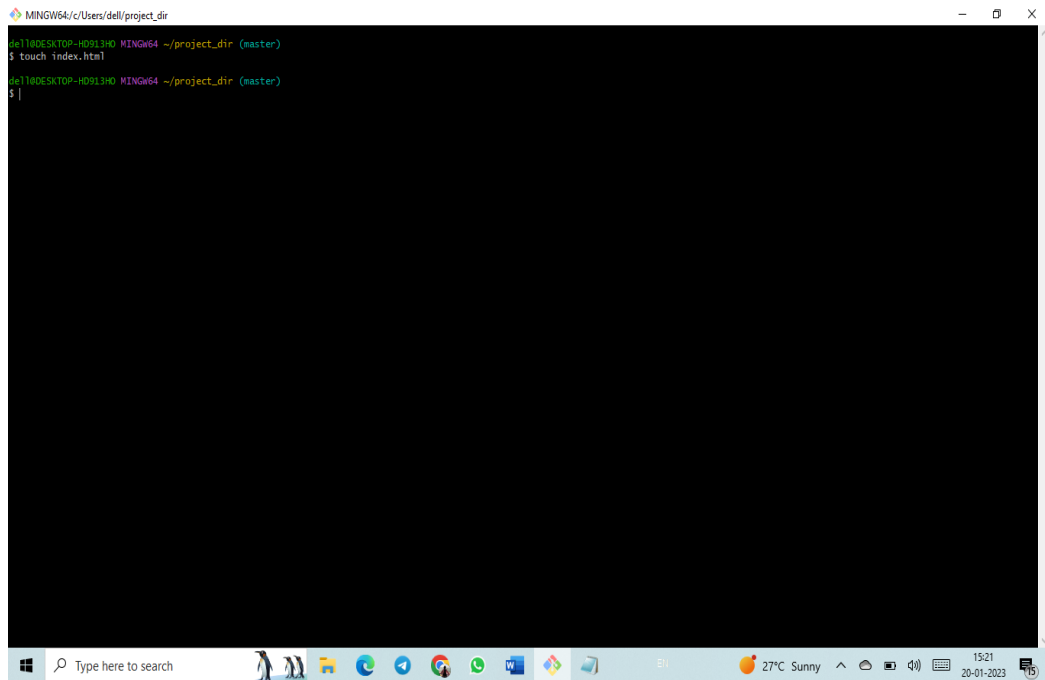
2. Initialize git version database.



```
MINGW64/c/Users/dell/project_dir
del11@DESKTOP-HD913HO MINGW64 ~
$ mkdir project_dir
del11@DESKTOP-HD913HO MINGW64 ~
$ cd project_dir
del11@DESKTOP-HD913HO MINGW64 ~/project_dir
$ git init
Initialized empty Git repository in C:/Users/dell/project_dir/.git/
del11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ |
```

A screenshot of a Windows terminal window titled 'MINGW64/c/Users/dell/project\_dir'. The terminal shows the execution of the following commands: `mkdir project_dir`, `cd project_dir`, and `git init`. The output of `git init` is 'Initialized empty Git repository in C:/Users/dell/project\_dir/.git/'. The prompt changes to `del11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)`. The terminal window has a standard Windows taskbar at the bottom with various application icons and system information like '27°C Sunny' and '20-01-2023'.

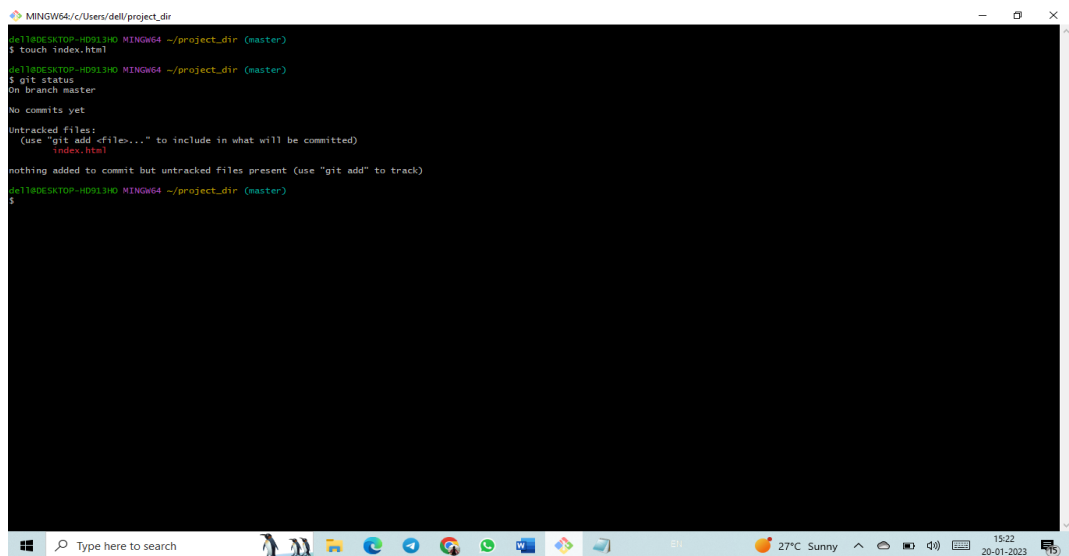
3. Create a new file index.html.



A terminal window titled 'MINGW64/c/Users/dell/project\_dir' shows the execution of the 'touch index.html' command. The prompt is 'de11@DESKTOP-HD913HD MINGW64 ~/project\_dir (master)'. The command is entered and executed, creating the file. The prompt returns to '\$ |'.

```
de11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$ touch index.html
de11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$ |
```

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



A terminal window titled 'MINGW64/c/Users/dell/project\_dir' shows the execution of 'git status'. The prompt is 'de11@DESKTOP-HD913HD MINGW64 ~/project\_dir (master)'. The command is entered and executed, showing the status of the repository. The output indicates that 'index.html' is an untracked file.

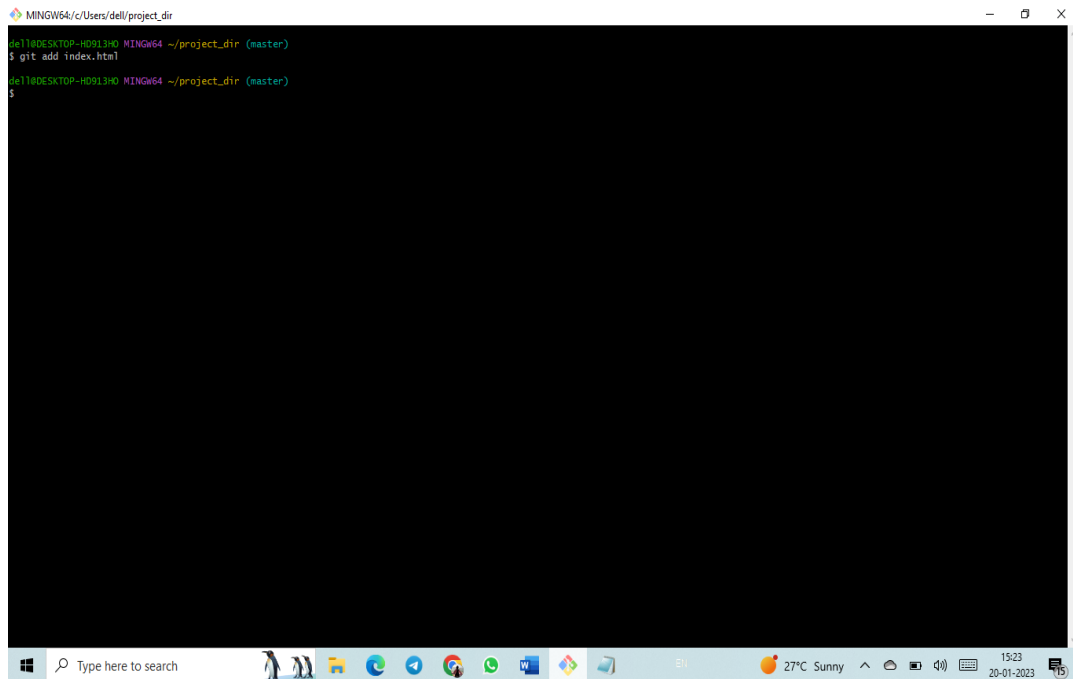
```
de11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$ touch index.html
de11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
de11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$
```

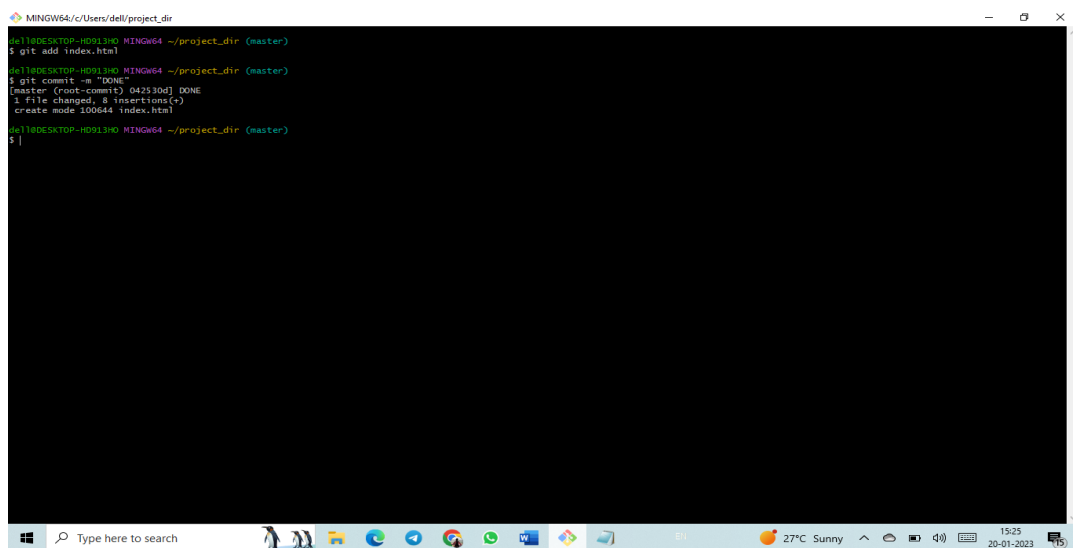
5. Stage the index.html file.



```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$ git add index.html
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$
```

The image shows a Windows terminal window with a black background and green text. The title bar indicates the path 'MINGW64/c/Users/dell/project\_dir'. The command prompt shows the user 'de11' at 'DESKTOP-HD913HQ' in the 'MINGW64' shell, currently on the 'master' branch in the directory '~/project\_dir'. The user enters the command 'git add index.html', and the prompt returns to '\$' on the next line, indicating the command was executed successfully.

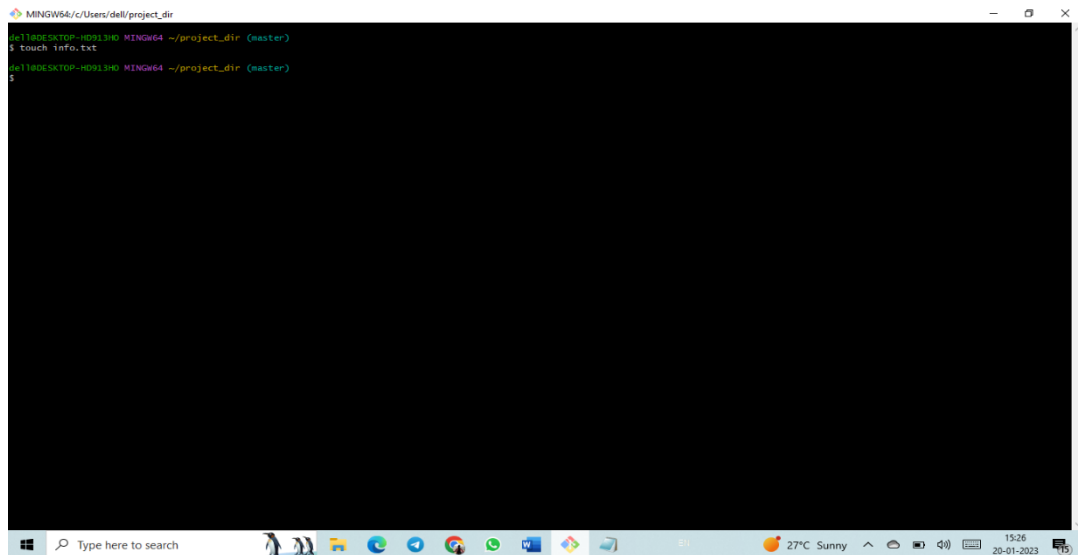
6. Commit index.html



```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$ git add index.html
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$ git commit -m "DONE"
[master (root-commit) 042510d] DONE
1 file changed, 8 insertions(+)
create mode 100644 index.html
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$
```

The image shows a Windows terminal window with a black background and green text. The title bar indicates the path 'MINGW64/c/Users/dell/project\_dir'. The command prompt shows the user 'de11' at 'DESKTOP-HD913HQ' in the 'MINGW64' shell, currently on the 'master' branch in the directory '~/project\_dir'. The user enters the command 'git commit -m "DONE"'. The terminal output shows '[master (root-commit) 042510d] DONE', '1 file changed, 8 insertions(+)', and 'create mode 100644 index.html'. The prompt then returns to '\$' on the next line, indicating the commit was successful.

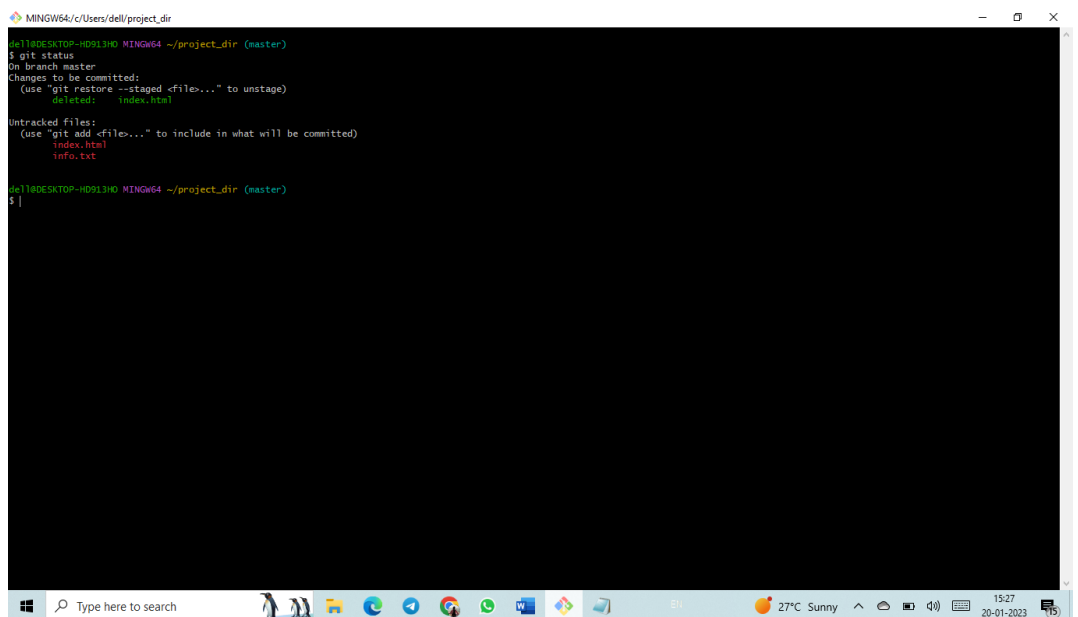
7. Make few changes in index.html & create a new file info.txt file.



A terminal window titled 'MINGW64/c/Users/dell/project\_dir' showing the execution of the 'touch info.txt' command. The prompt is 'de11@DESKTOP-HD913HO MINGW64 ~/project\_dir (master)'. The command is entered and executed successfully. The Windows taskbar at the bottom shows the date as 20-01-2023 and time as 15:26.

```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ touch info.txt
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$
```

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



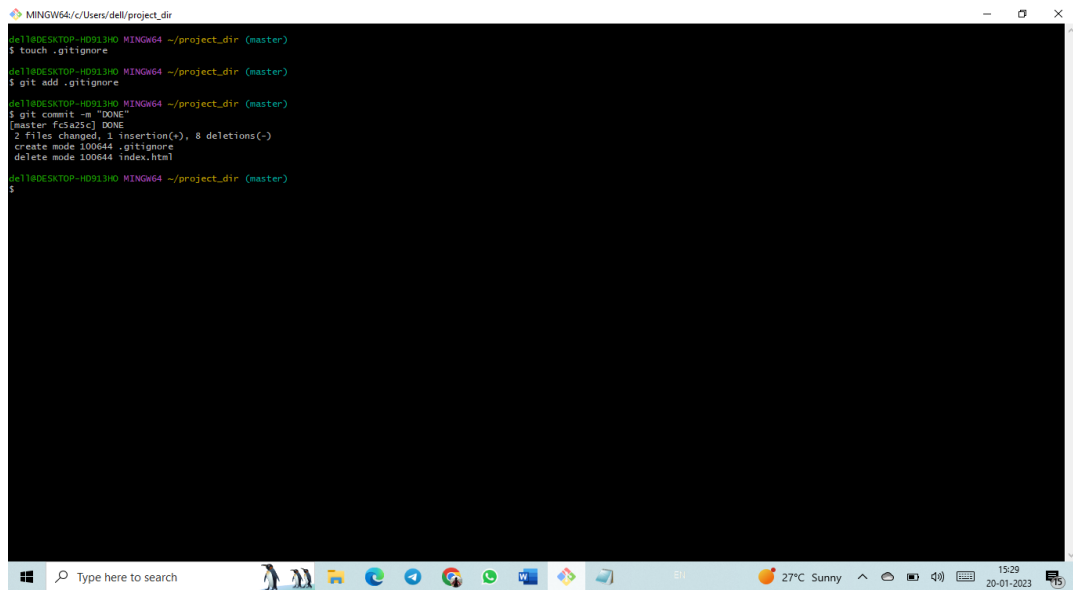
A terminal window titled 'MINGW64/c/Users/dell/project\_dir' showing the output of the 'git status' command. The prompt is 'de11@DESKTOP-HD913HO MINGW64 ~/project\_dir (master)'. The output shows that 'index.html' is staged for commit and 'index.html' and 'info.txt' are untracked files. The Windows taskbar at the bottom shows the date as 20-01-2023 and time as 15:27.

```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    index.html

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

de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ |
```

9. Configure GIT to ignore all txt files.

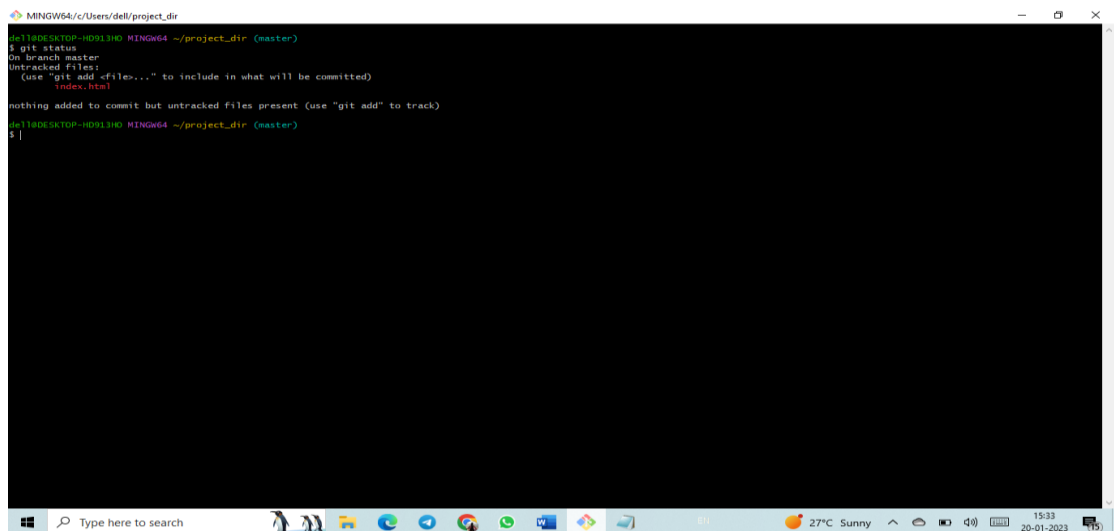


A terminal window titled 'MINGW64/c/Users/dell/project\_dir' showing the following commands and output:

```
ps11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ touch .gitignore
ps11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ git add .gitignore
ps11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ git commit -m "DONE"
[master f5425c] DONE
2 files changed, 1 insertion(+), 8 deletions(-)
create mode 100644 .gitignore
delete mode 100644 index.html
ps11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$
```

The terminal window has a Windows taskbar at the bottom showing the search bar, taskbar icons, and system tray with weather (27°C Sunny) and date (20-01-2023).

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



A terminal window titled 'MINGW64/c/Users/dell/project\_dir' showing the following commands and output:

```
ps11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html

nothing added to commit but untracked files present (use "git add" to track)
ps11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$
```

The terminal window has a Windows taskbar at the bottom showing the search bar, taskbar icons, and system tray with weather (27°C Sunny) and date (20-01-2023).

## 11. State & commit index.html

```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ git add index.html
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ git commit -m "COMMITTED index.html"
[master 065cb3c] COMMITTED index.html
1 file changed, 8 insertions(+)
create mode 100644 index.html
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$
```

## 12. Log all your comments so far.

```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$ git log
commit 065cb3c907d5f4a571055e2333026179ec33f0d7 (HEAD -> master)
Author: Shikha1311 <shikha499400@gmail.com>
Date: Fri Jan 20 15:34:29 2023 +0530

    COMMITTED index.html

commit 0d76b060eca48352e27a8326a1dbf226b76cfff1
Author: Shikha1311 <shikha499400@gmail.com>
Date: Fri Jan 20 15:32:47 2023 +0530

    DONE

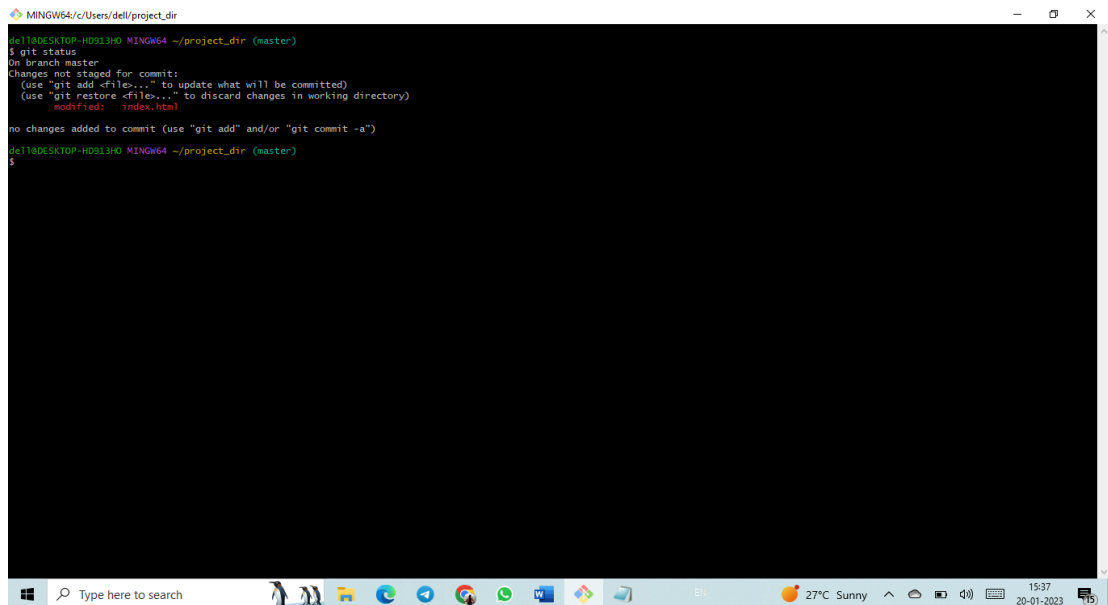
commit fc5a25ce4e52c3466a21188f53839428173db584
Author: Shikha1311 <shikha499400@gmail.com>
Date: Fri Jan 20 15:29:43 2023 +0530

    DONE

commit 042530daf4e48bc177b14c77b0f49a86a605aace
Author: Shikha1311 <shikha499400@gmail.com>
Date: Fri Jan 20 15:25:24 2023 +0530

    DONE
de11@DESKTOP-HD913HO MINGW64 ~/project_dir (master)
$
```

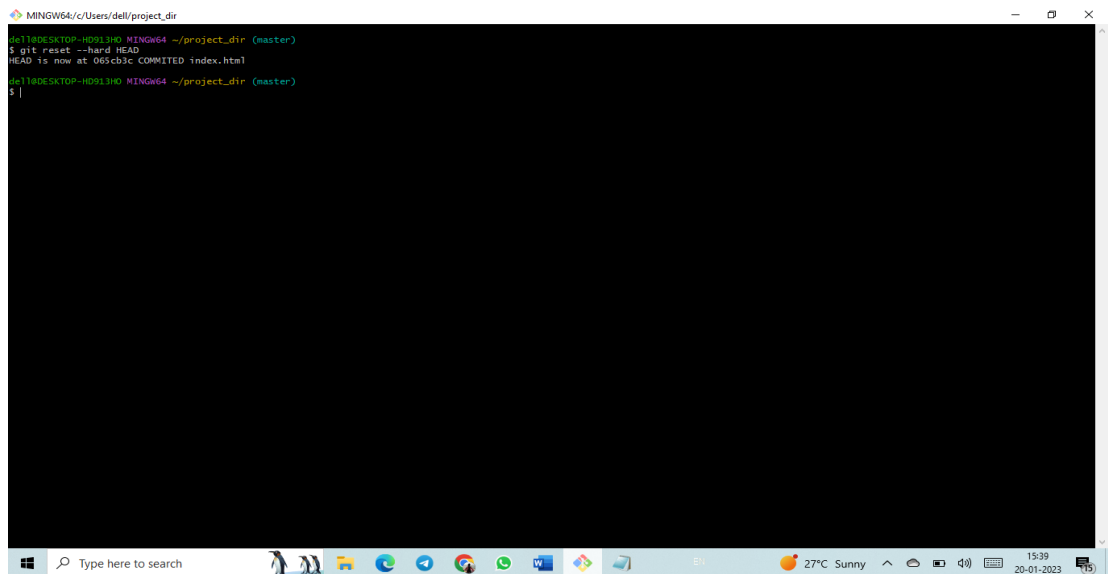
13. Make some changes in index.html.



```
MINGW64/c/Users/dell/project_dir
ps11@DESKTOP-HD9L3H0 MINGW64 ~/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

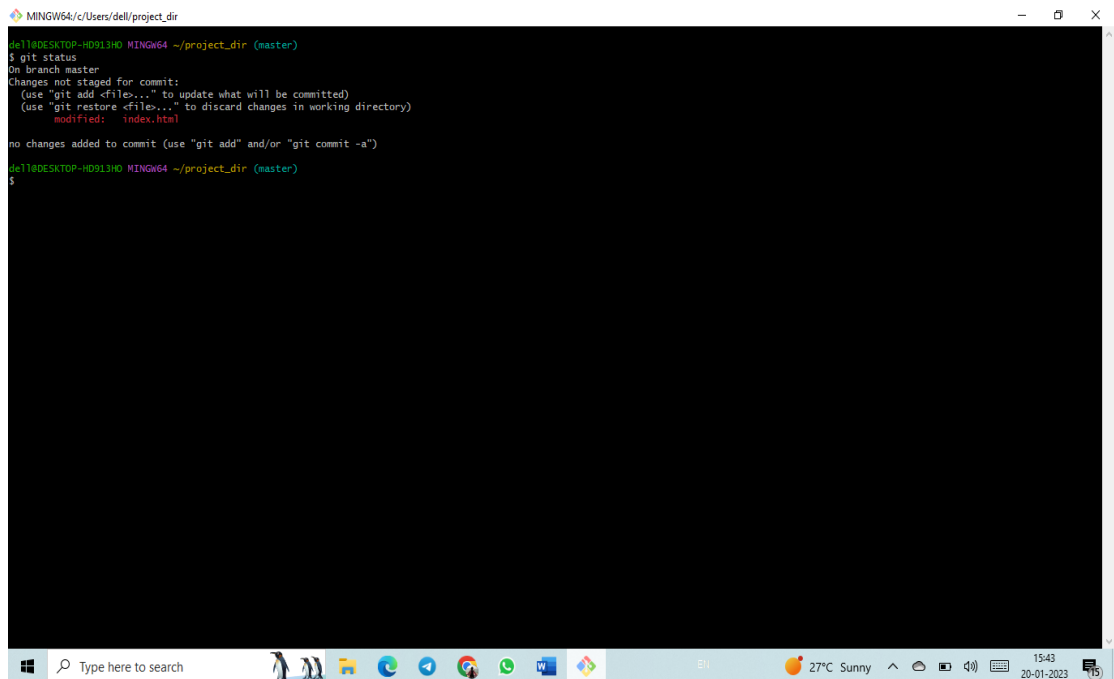
no changes added to commit (use "git add" and/or "git commit -a")
ps11@DESKTOP-HD9L3H0 MINGW64 ~/project_dir (master)
$
```

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



```
MINGW64/c/Users/dell/project_dir
ps11@DESKTOP-HD9L3H0 MINGW64 ~/project_dir (master)
$ git reset --hard HEAD
HEAD is now at 065cb3c COMMITTED index.html
ps11@DESKTOP-HD9L3H0 MINGW64 ~/project_dir (master)
$
```

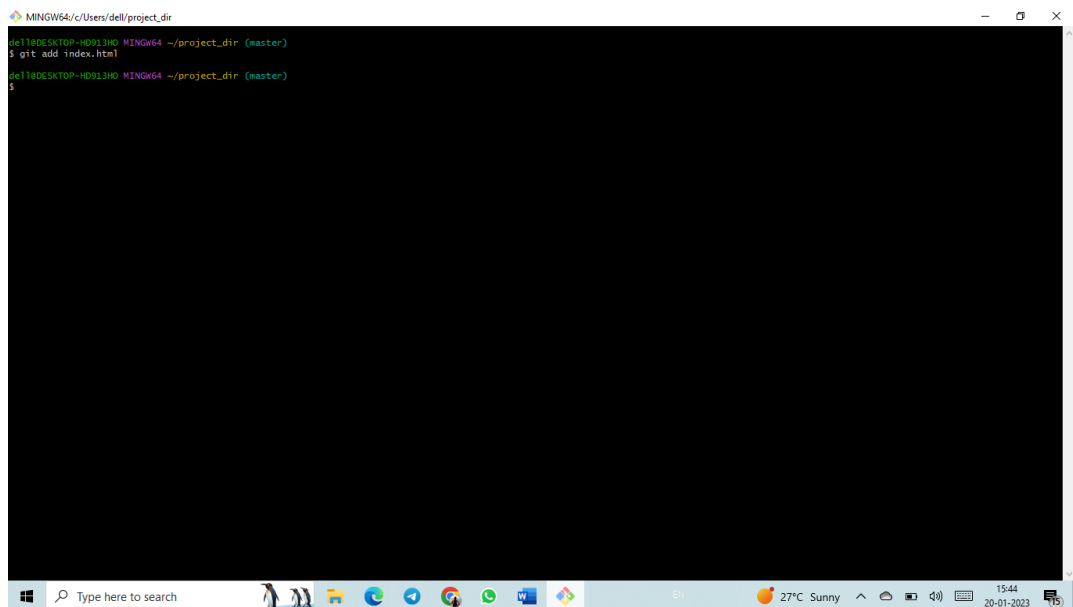
## 15. Again change index.html.



```
MINGW64/c/Users/dell/project_dir
ps11@DESKTOP-HD913HD MINGW64 ~/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")
ps11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$
```

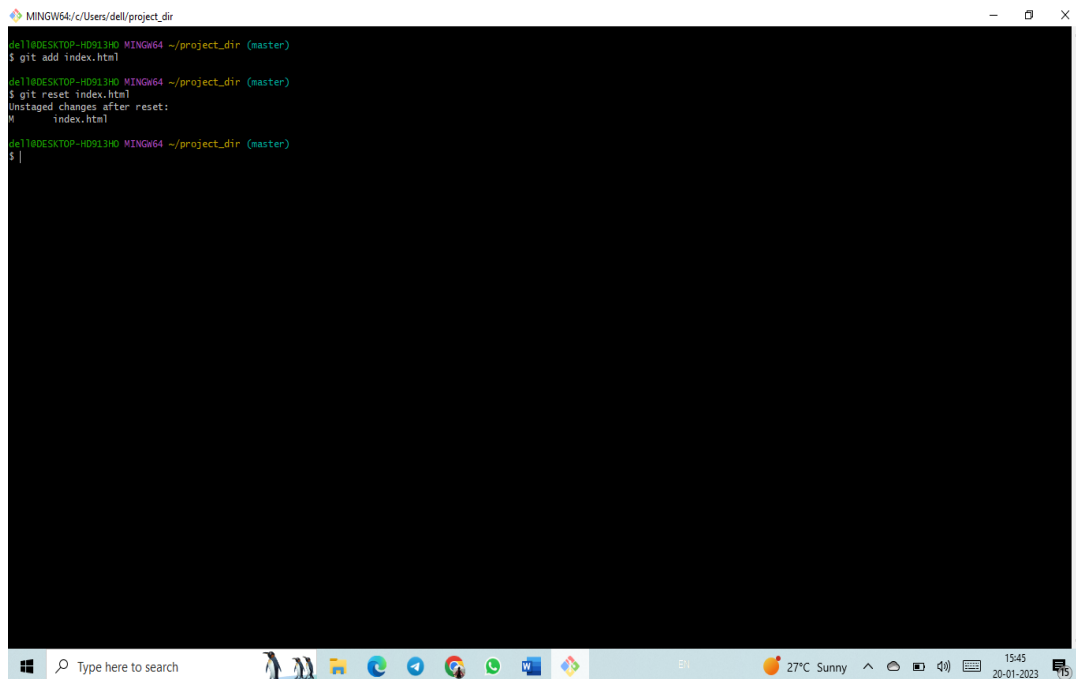
## 16. Stage index.html



```
MINGW64/c/Users/dell/project_dir
ps11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$ git add index.html
ps11@DESKTOP-HD913HD MINGW64 ~/project_dir (master)
$
```

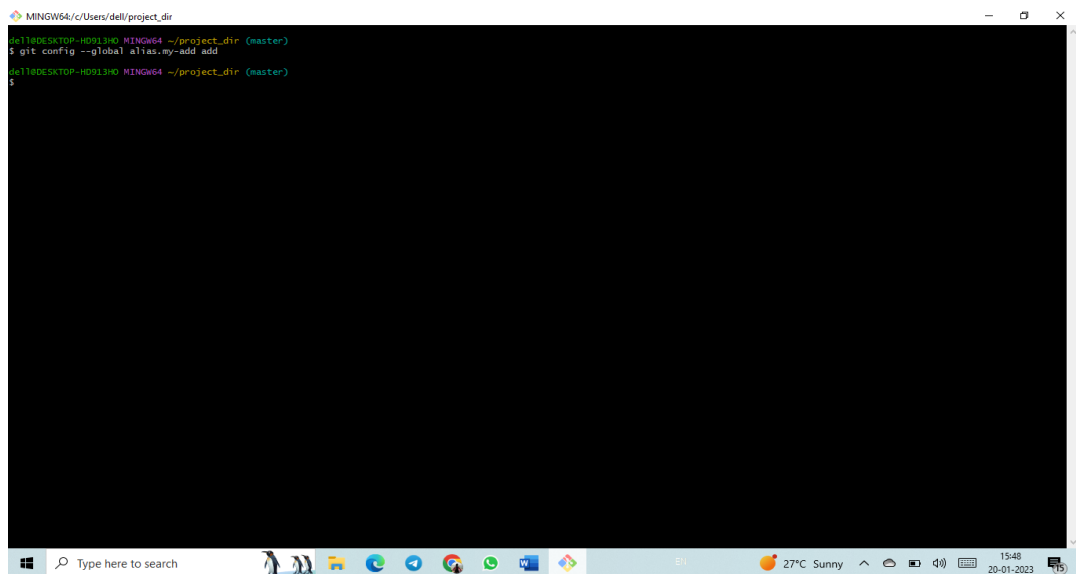


17. Revert back the last stage.



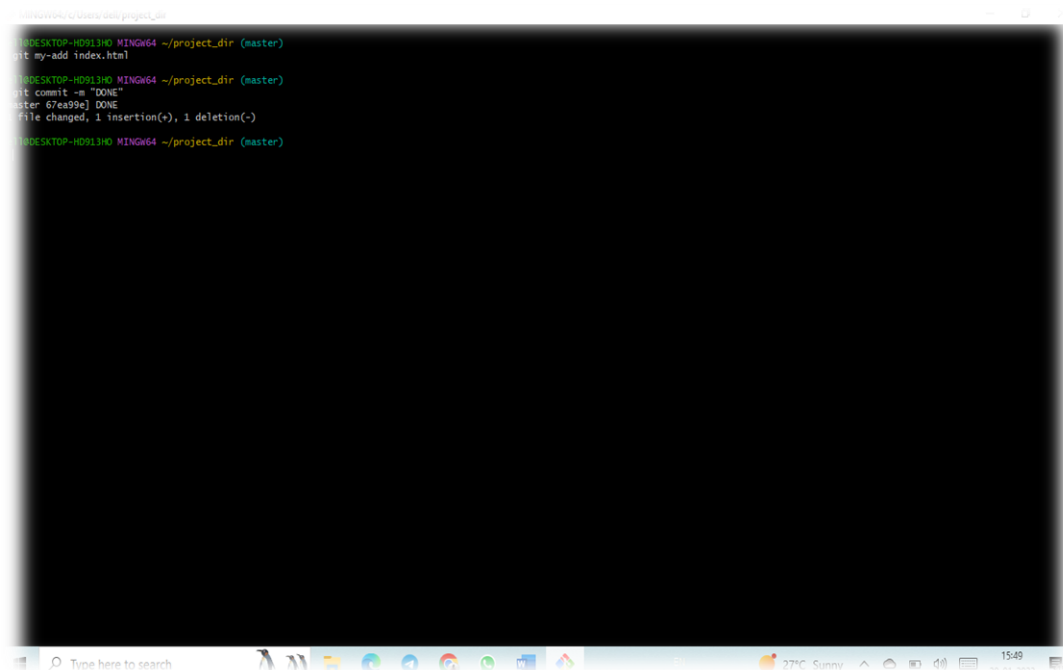
```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$ git add index.html
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$ git reset index.html
Unstaged changes after reset:
M   index.html
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$ |
```

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



```
MINGW64/c/Users/dell/project_dir
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add
de11@DESKTOP-HD913HQ MINGW64 ~/project_dir (master)
$
```

19. Using my\_add command Stage index.html again & commit the changes.

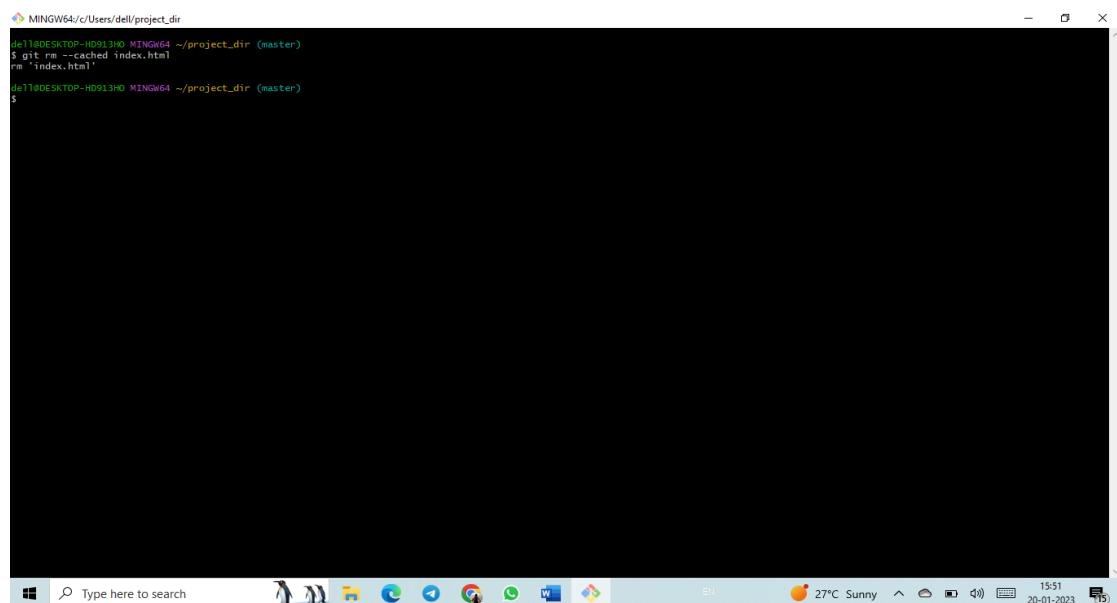


```
MINGW64 ~/project_dir (master)
$ git my-add index.html

MINGW64 ~/project_dir (master)
$ git commit -m "DONE"
[master 67ea99e] DONE
1 file changed, 1 insertion(+), 1 deletion(-)

MINGW64 ~/project_dir (master)
```

20. Revert the last commit.



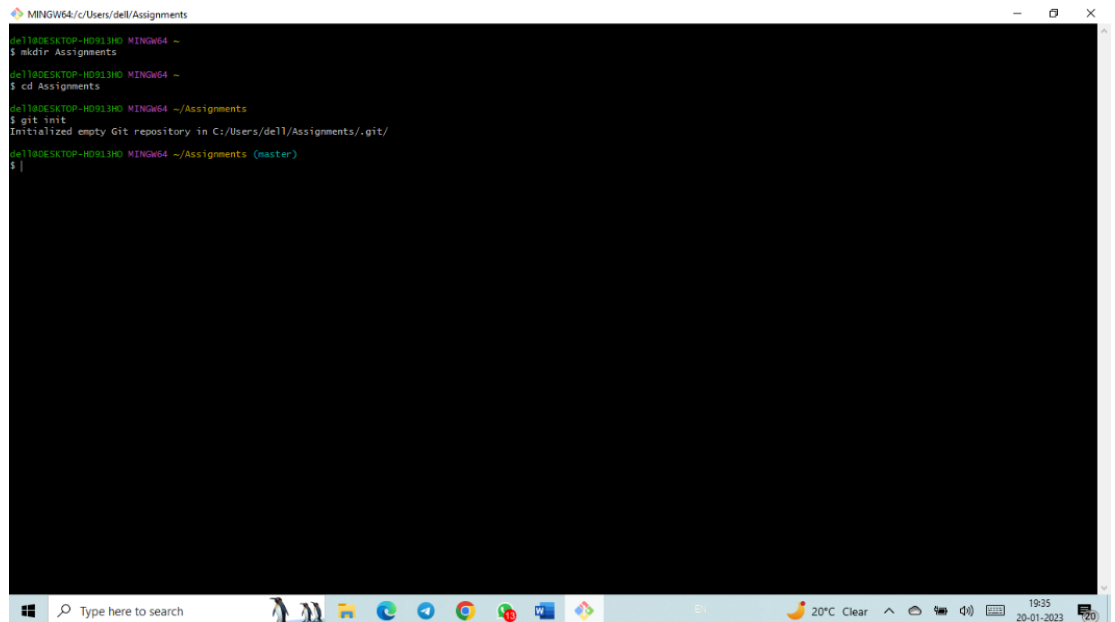
```
MINGW64 ~/project_dir (master)
$ git rm --cached index.html
rm 'index.html'

MINGW64 ~/project_dir (master)
$
```

## PART 2

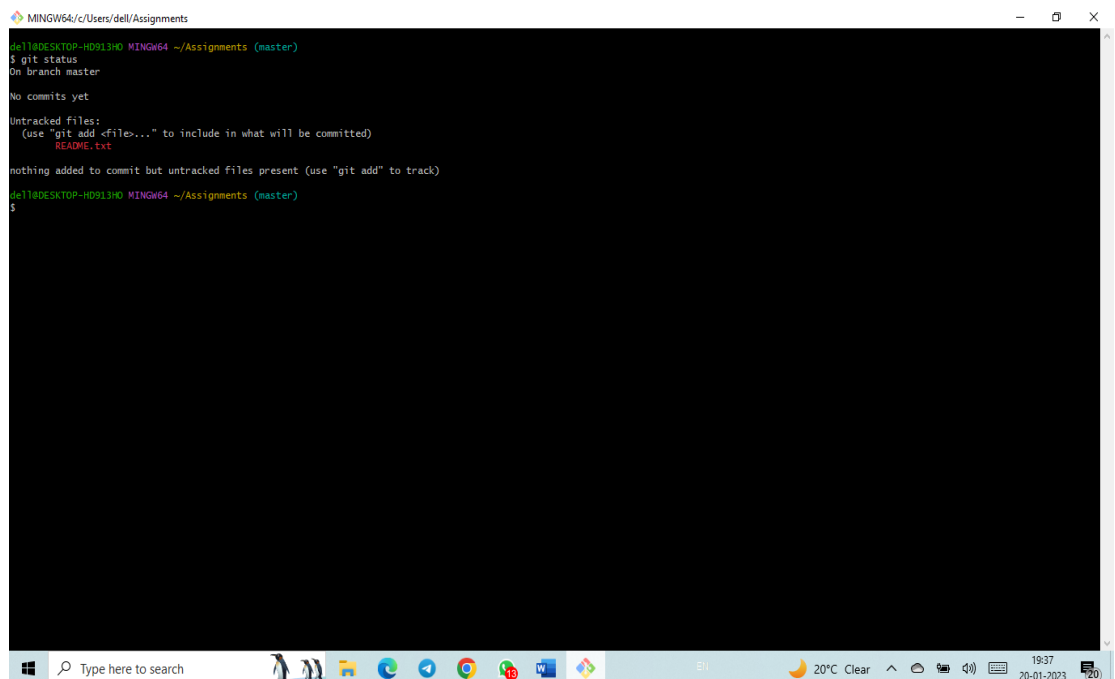
# GIT BRANCHING

1. Create an empty directory 'Assignments' & cd to 'Assignments'.



```
MINGW64/c/Users/dell/Assignments
de11@DESKTOP-HD913HO MINGW64 ~
$ mkdir Assignments
de11@DESKTOP-HD913HO MINGW64 ~
$ cd Assignments
de11@DESKTOP-HD913HO MINGW64 ~/Assignments
$ git init
Initialized empty Git repository in C:/Users/dell/Assignments/.git/
de11@DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$
```

2. Create a file README.txt inside 'Assignments' & write few lines about the contents of 'Assignments' folder.



```
de11@DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
de11@DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$
```

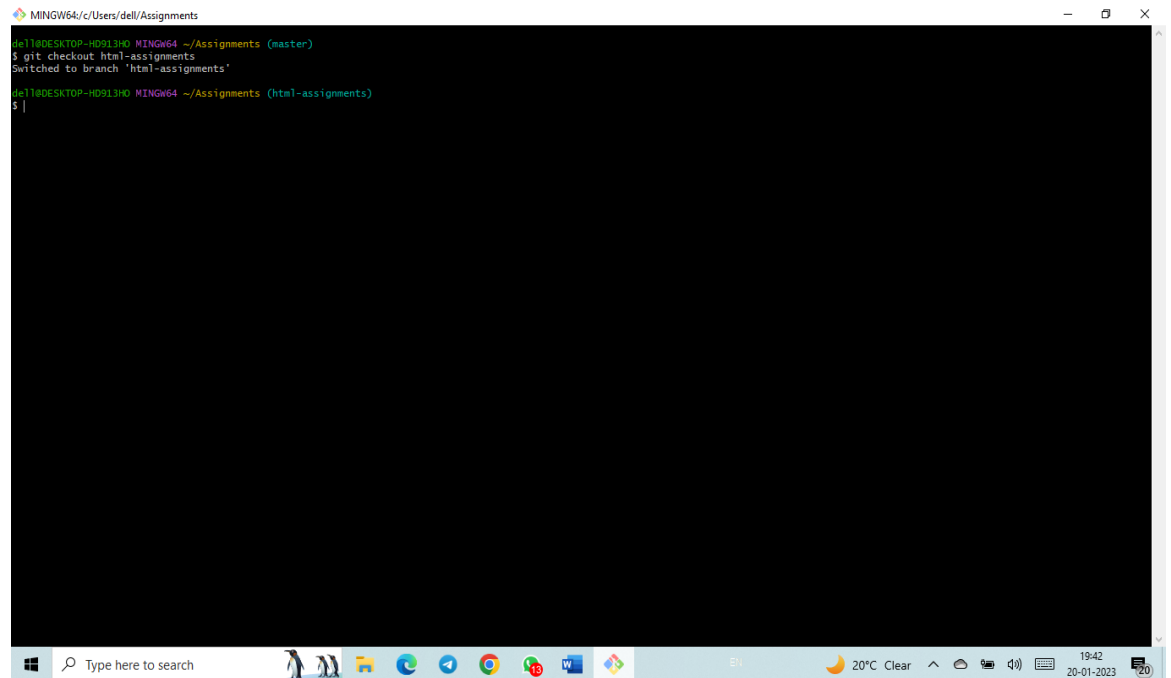
### 3.Commit README.txt file

```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git commit -m "DONE"
[master (root-commit) a5b5ebd] DONE
1 file changed, 1 insertion(+)
create mode 100644 README.txt
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$
```

### 4.Now create a new branch 'html-assignments'.

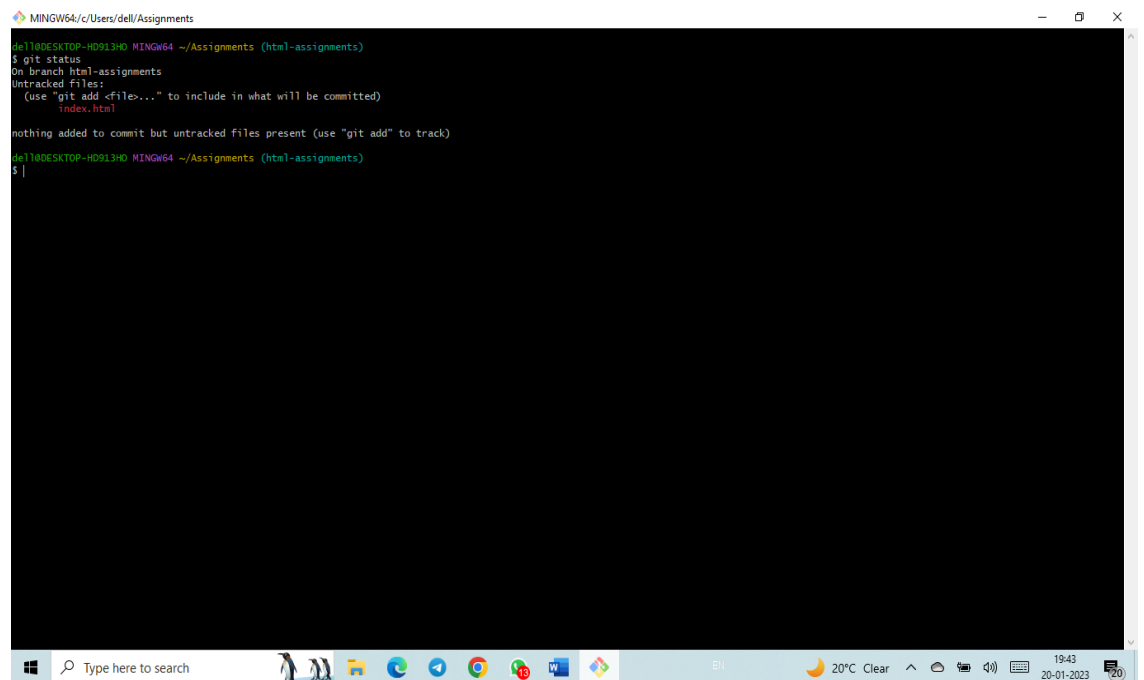
```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git branch html-assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$
```

5. Switch to 'html-assignments' branch.



```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git checkout html-assignments
Switched to branch 'html-assignments'
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ |
```

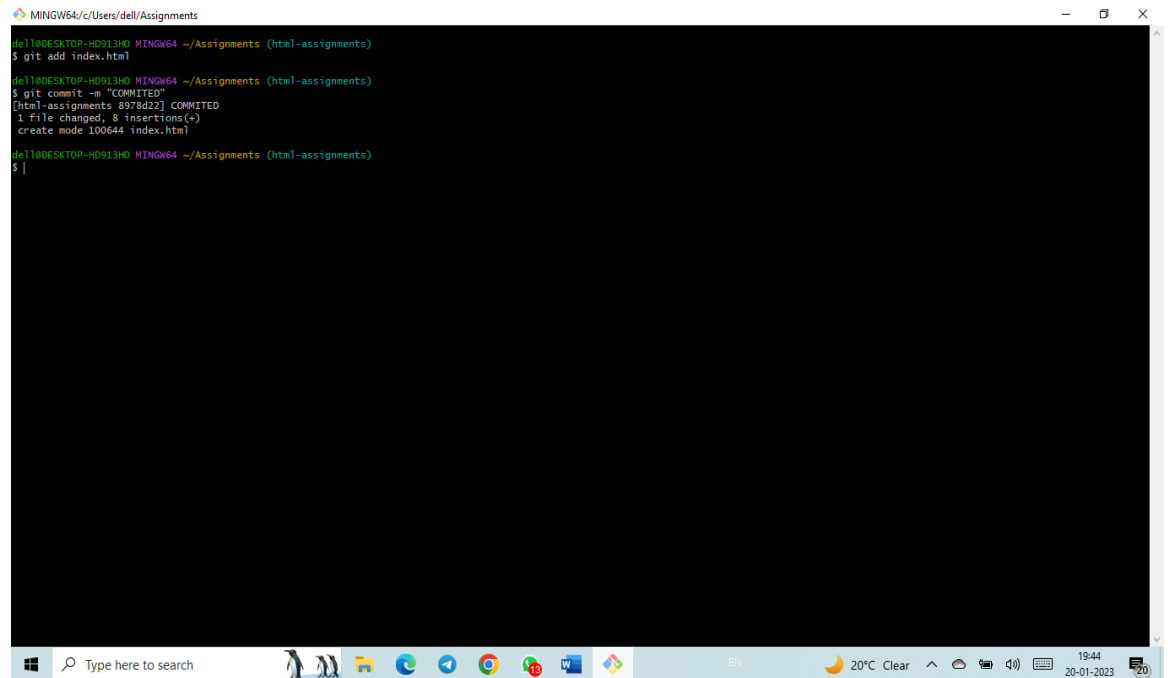
6. Copy all HTML assignments inside 'Assignments' folder.



```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ git status
On branch html-assignments
Untracked Files:
  (use "git add <file>..." to include in what will be committed)
    index.html

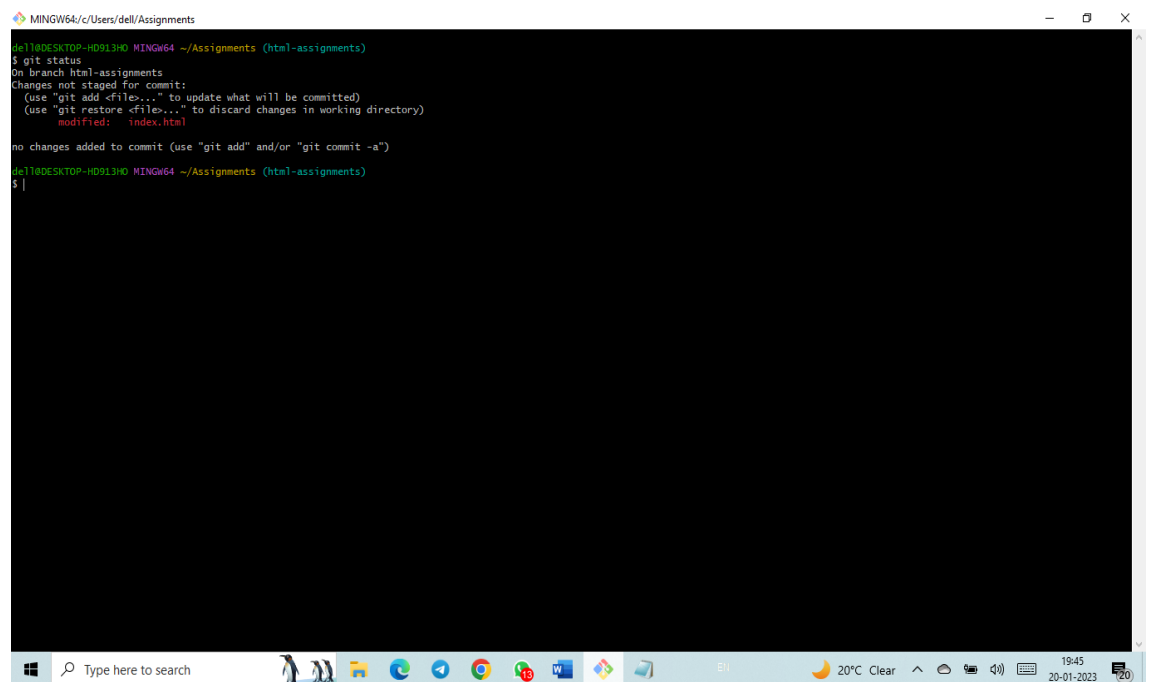
nothing added to commit but untracked files present (use "git add" to track)
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ |
```

7. Commit HTML assignments into 'html-assignments' branch.



```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ git add index.html
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ git commit -m "COMMITTED"
[html-assignments 6978d22] COMMITED
1 file changed, 8 insertions(+)
create mode 100644 index.html
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ |
```

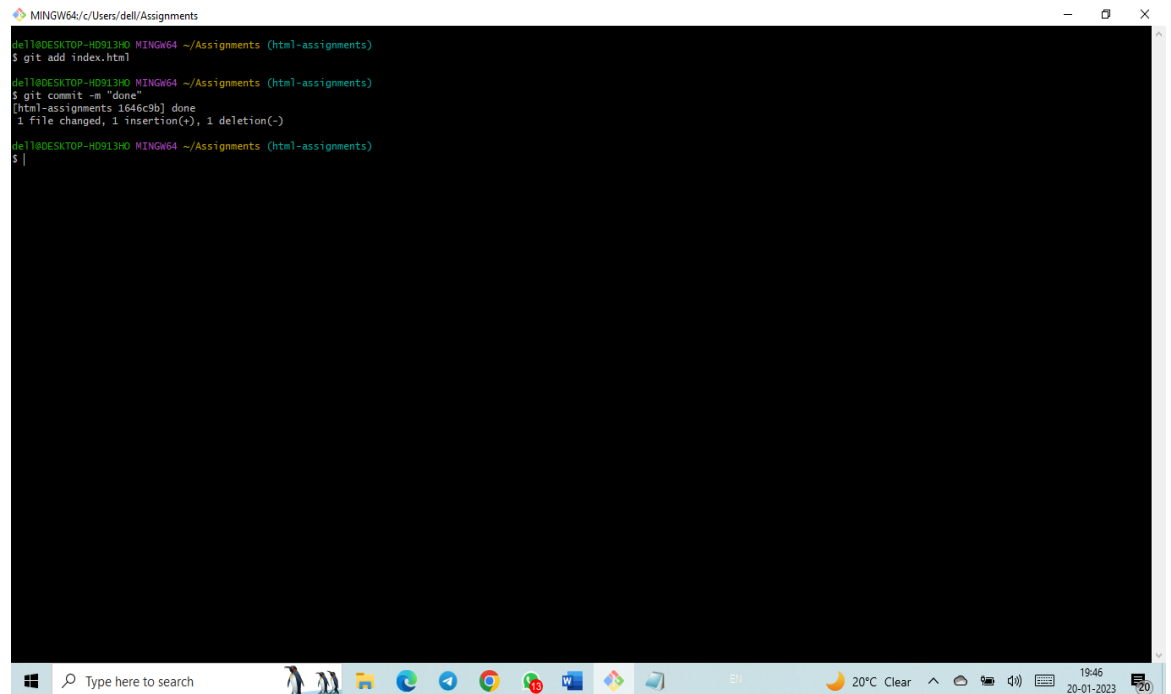
8. Make minor changes into few files belonging to 'html-assignments' branch.



```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ git status
On branch html-assignments
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")
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$ |
```

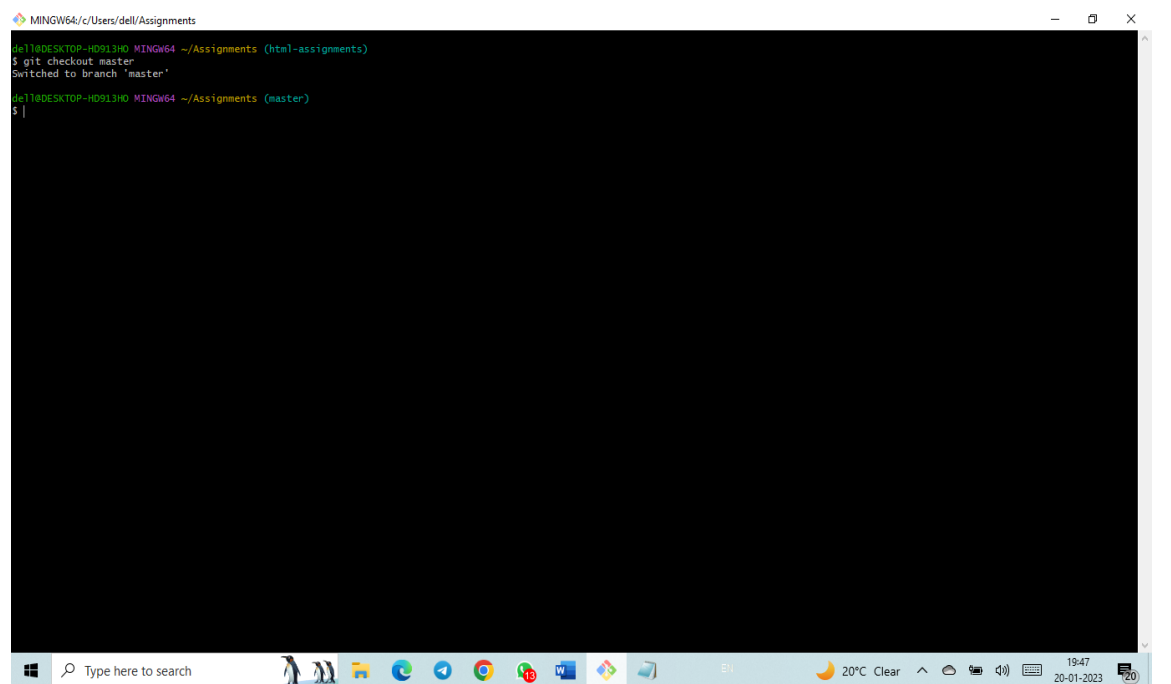
9.Commit those changed files.

A screenshot of a Windows terminal window titled "MINGW64/c/Users/dell/Assignments". The terminal shows the following commands and output:

```
de11@DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)
$ git add index.html
de11@DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)
$ git commit -m "done"
[html-assignments 1646c9b] done
1 file changed, 1 insertion(+), 1 deletion(-)
de11@DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)
$ |
```

The terminal window has a standard Windows taskbar at the bottom with various application icons and a system tray showing the date and time as 19:46 on 20-01-2023.

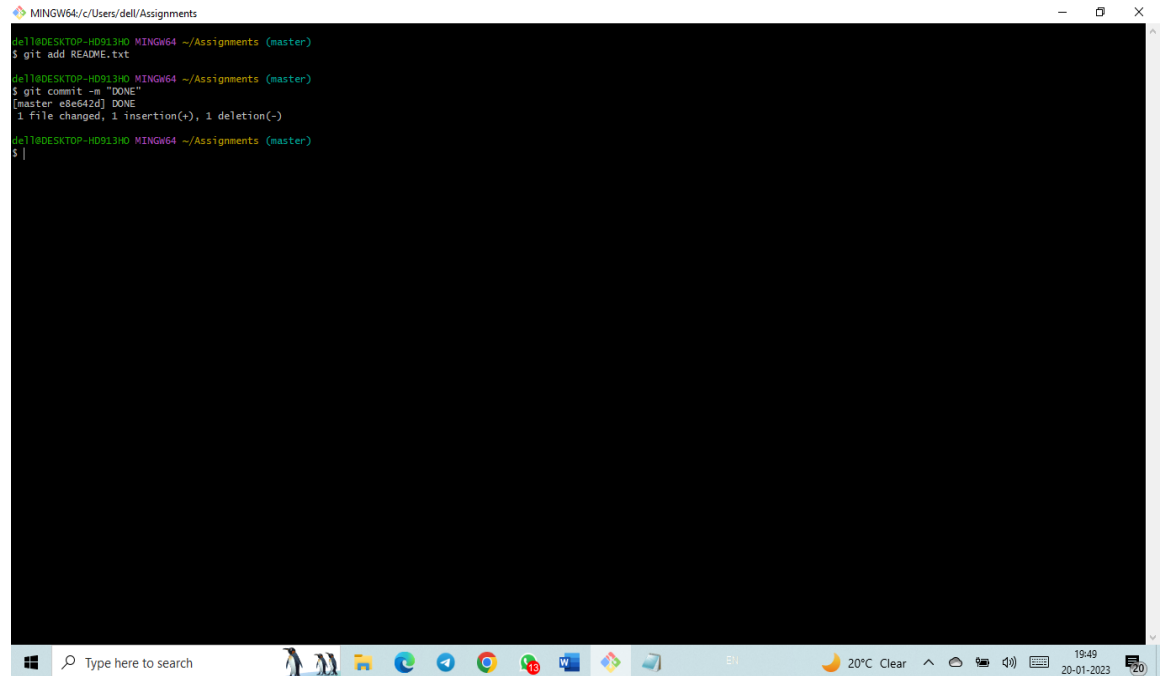
10.Switch to master branch.

A screenshot of a Windows terminal window titled "MINGW64/c/Users/dell/Assignments". The terminal shows the following commands and output:

```
de11@DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)
$ git checkout master
Switched to branch 'master'
de11@DESKTOP-HD913H0 MINGW64 ~/Assignments (master)
$ |
```

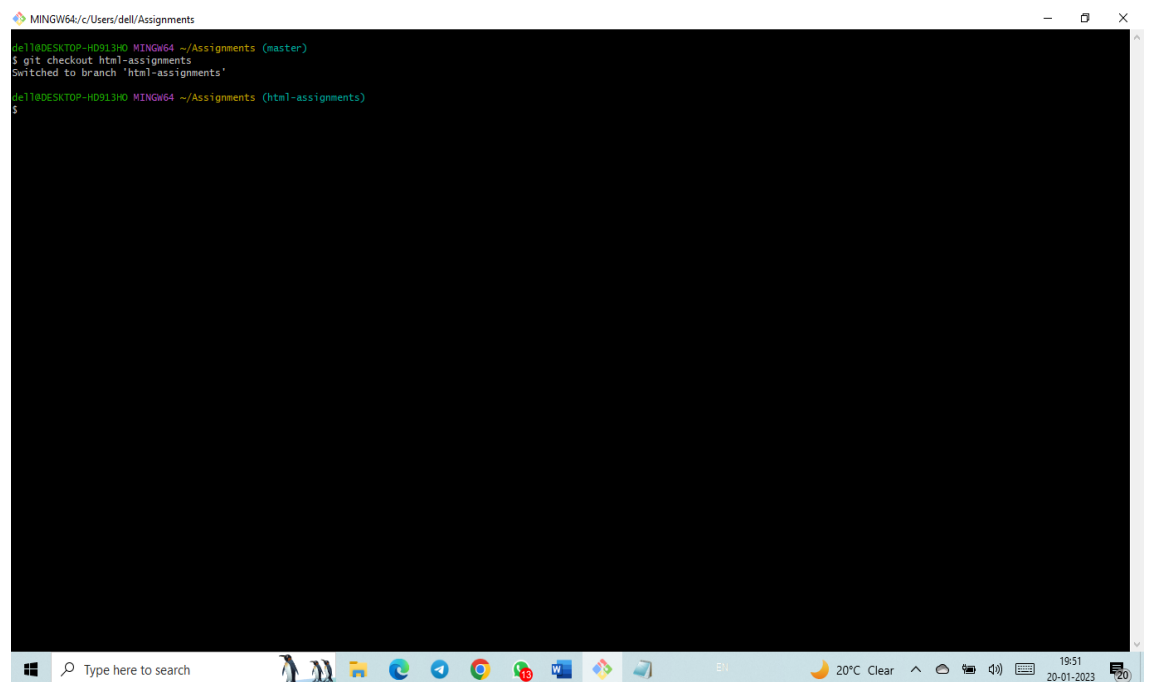
The terminal window has a standard Windows taskbar at the bottom with various application icons and a system tray showing the date and time as 19:47 on 20-01-2023.

11. Make minor changes into README.txt file & commit those changes into master.



```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git add README.txt
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git commit -m "DONE"
[master e96642d] DONE
1 file changed, 1 insertion(+), 1 deletion(-)
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ |
```

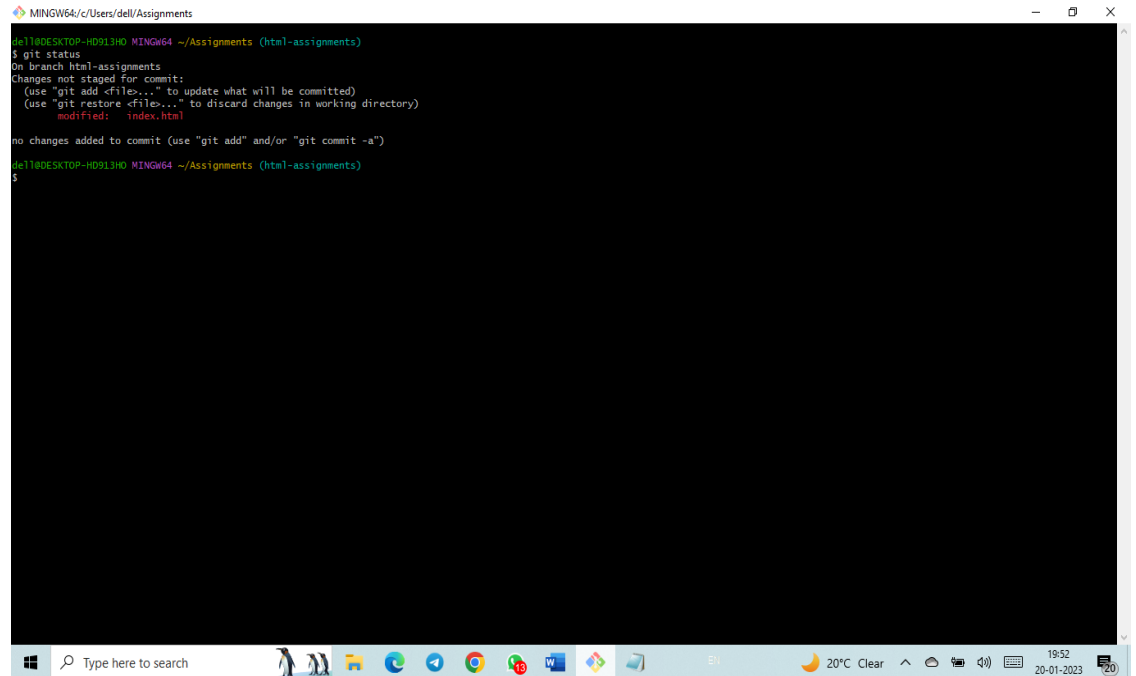
12. Again switch to 'html-assignments' branch.



```
MINGW64/c/Users/dell/Assignments
de110DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git checkout html-assignments
Switched to branch 'html-assignments'
de110DESKTOP-HD913HO MINGW64 ~/Assignments (html-assignments)
$
```



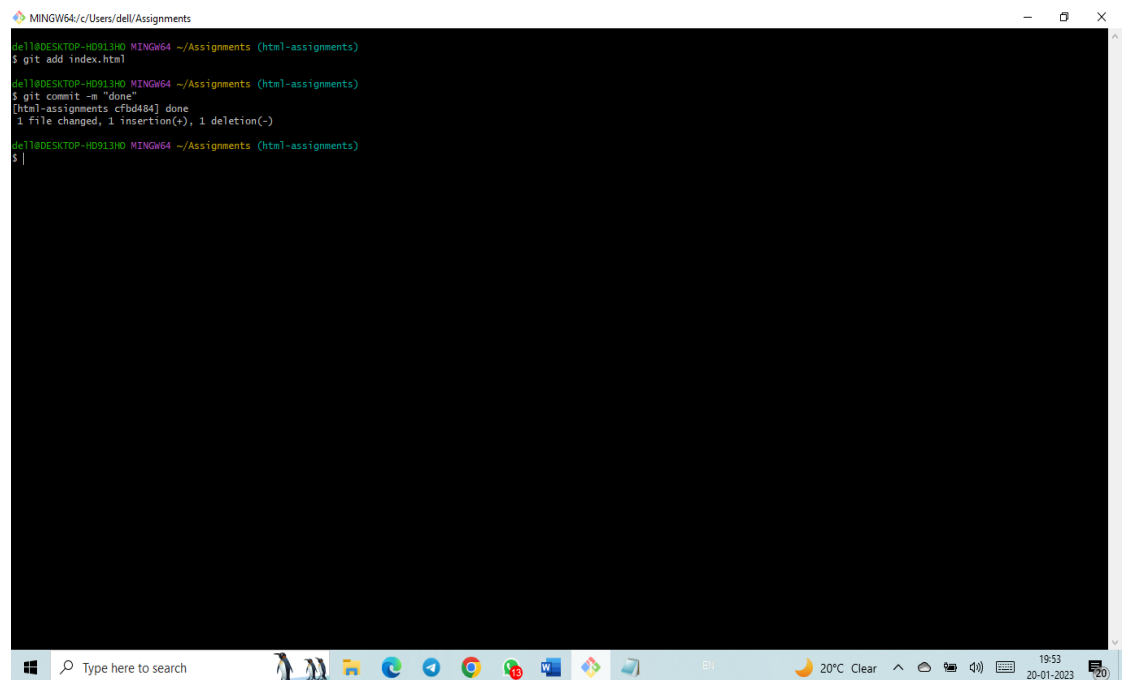
13. Make minor changes into few files belonging to 'html-assignments' branch.



```
MINGW64/c/Users/dell/Assignments
dell@DESKTOP-HD9L3HO MINGW64 ~/Assignments (html-assignments)
$ git status
On branch html-assignments
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

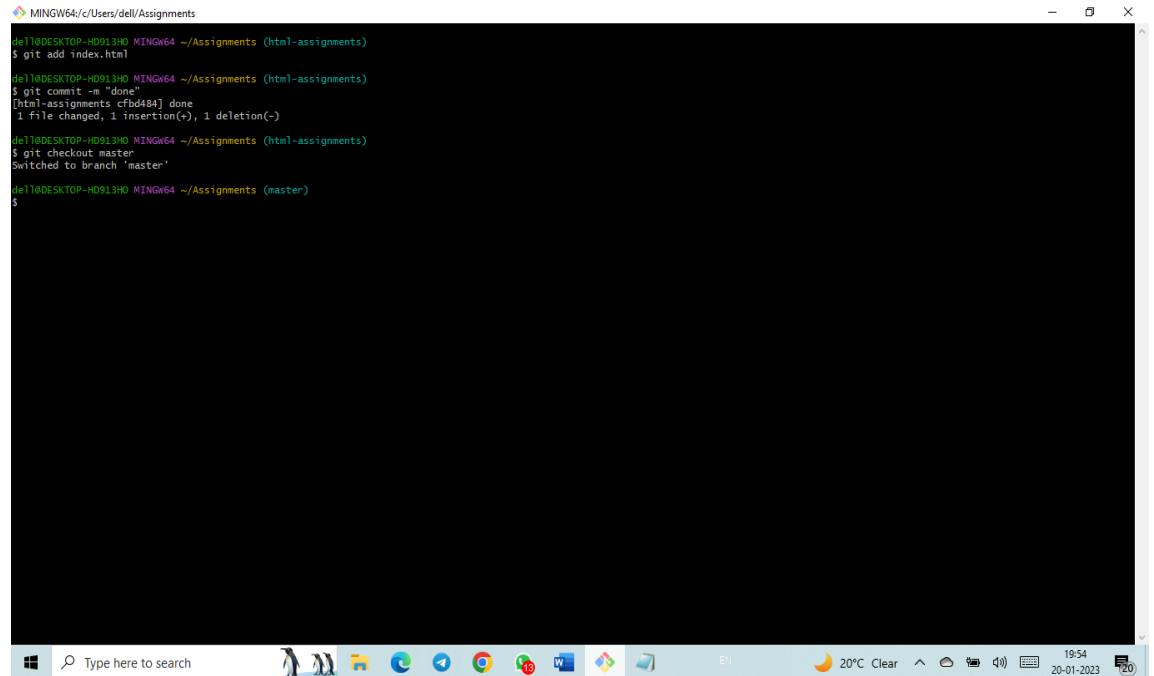
no changes added to commit (use "git add" and/or "git commit -a")
dell@DESKTOP-HD9L3HO MINGW64 ~/Assignments (html-assignments)
$
```

14. Commit those changes.



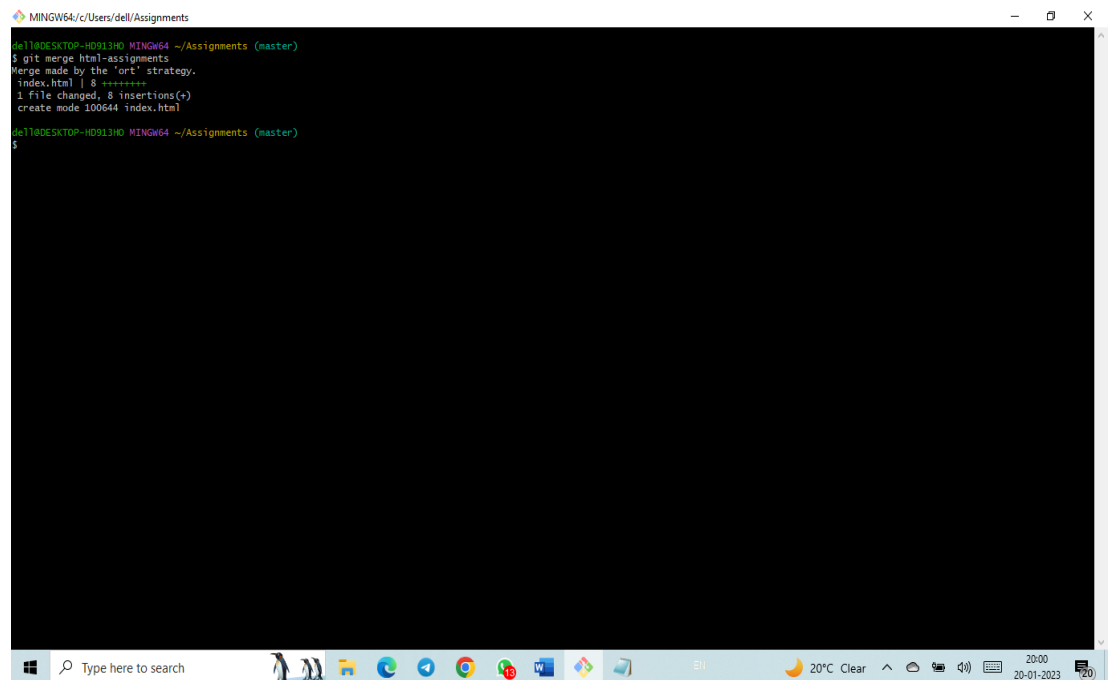
```
MINGW64/c/Users/dell/Assignments
dell@DESKTOP-HD9L3HO MINGW64 ~/Assignments (html-assignments)
$ git add index.html
dell@DESKTOP-HD9L3HO MINGW64 ~/Assignments (html-assignments)
$ git commit -m "done"
[html-assignments cfb484] done
1 file changed, 1 insertion(+), 1 deletion(-)
dell@DESKTOP-HD9L3HO MINGW64 ~/Assignments (html-assignments)
$ |
```

15. Switch to master.

A terminal window titled 'MINGW64/c/Users/dell/Assignments' with a dark background. The prompt is 'de110DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)'. The user enters '\$ git add index.html', '\$ git commit -m "done"', and the output shows '1 file changed, 1 insertion(+), 1 deletion(-)'. Then the user enters '\$ git checkout master' and the output says 'Switched to branch 'master''. The prompt changes to '(master)'.

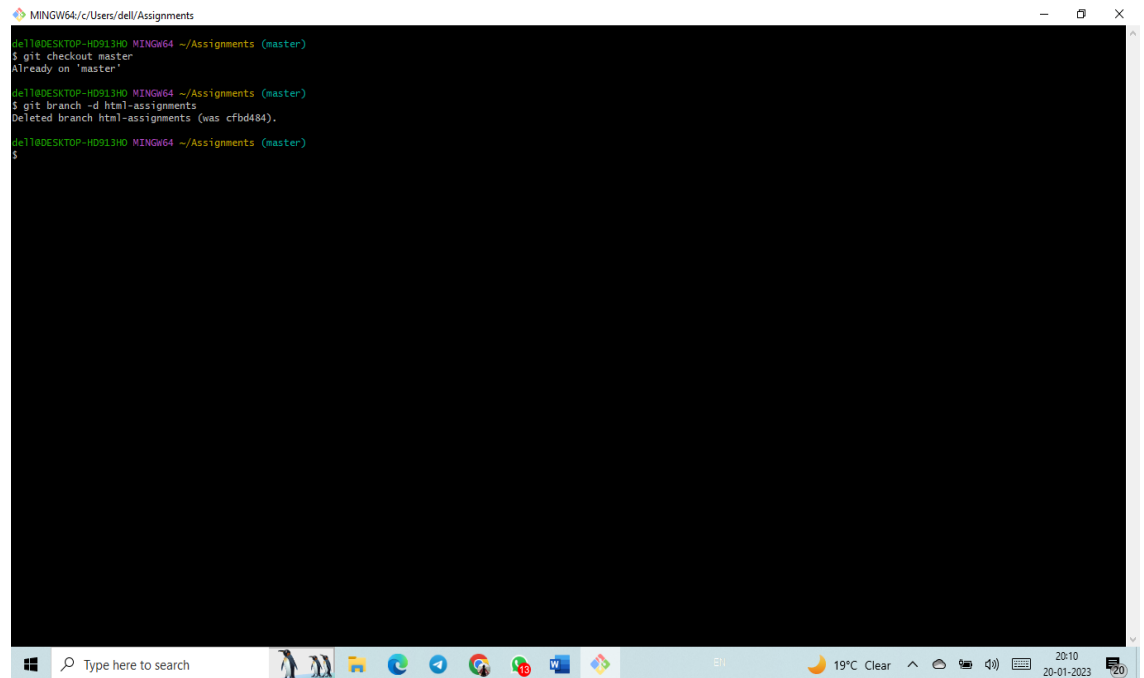
```
de110DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)
$ git add index.html
de110DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)
$ git commit -m "done"
[html-assignments cfb484] done
1 file changed, 1 insertion(+), 1 deletion(-)
de110DESKTOP-HD913H0 MINGW64 ~/Assignments (html-assignments)
$ git checkout master
Switched to branch 'master'
de110DESKTOP-HD913H0 MINGW64 ~/Assignments (master)
$
```

16. Merge 'html-assignments' branch into master. Confirm all html assignments are shown in master.

A terminal window titled 'MINGW64/c/Users/dell/Assignments' with a dark background. The prompt is 'de110DESKTOP-HD913H0 MINGW64 ~/Assignments (master)'. The user enters '\$ git merge html-assignments'. The output shows 'Merge made by the 'ort' strategy.', 'index.html | 8 ++++++', '1 file changed, 8 insertions(+)', and 'create mode 100644 index.html'. The prompt remains '(master)'.

```
de110DESKTOP-HD913H0 MINGW64 ~/Assignments (master)
$ git merge html-assignments
Merge made by the 'ort' strategy.
index.html | 8 ++++++
1 file changed, 8 insertions(+)
create mode 100644 index.html
de110DESKTOP-HD913H0 MINGW64 ~/Assignments (master)
$
```

17. Finally delete the 'html-assignments' branch.



```
MINGW64/c/Users/dell/Assignments
del10DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git checkout master
Already on 'master'

del10DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$ git branch -d html-assignments
Deleted branch html-assignments (was cfb4484).

del10DESKTOP-HD913HO MINGW64 ~/Assignments (master)
$
```

The screenshot shows a Windows 10 desktop with a terminal window open. The terminal is running Git commands to delete the 'html-assignments' branch. The window title is 'MINGW64/c/Users/dell/Assignments'. The terminal output shows the user checking out to the 'master' branch and then deleting the 'html-assignments' branch. The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the date and time as 20:10 on 20-01-2023.

## PART 3

# GIT REMOTING

1. Commit & push any sample file to this repository under 'Assignments' directory

```
MINGW64/c/Users/dell/assignment
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ git config --global user.username "Shikha1311"
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ git init
Reinitialized existing Git repository in C:/Users/dell/assignment/.git/
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ git add .
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ git commit -m "COMMITTED 2"
On branch master
nothing to commit, working tree clean
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ git remote add origin https://github.com/Shikha1311/fresersbatch-oct16.git
error: remote origin already exists.
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ git pull --rebase origin master
From https://github.com/Shikha1311/fresersbatch-oct16
 * branch      master       -> FETCH_HEAD
Already up to date.
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ git push -u origin master
Everything up-to-date
branch 'master' set up to track 'origin/master'.
de11@DESKTOP-HD913HO MINGW64 ~/assignment (master)
$ |
```