# GIT Branching

Objective: Commit HTML, CSS & JavaScript assignments into GIT.

SECTION-1 (HTML assignments) - Steps to follow:

21.    First take a backup of your assignments & projects. This is required because due to incorrect GIT operation you may lose your files.

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



```
MINGW64:/e/Assignments Implementation/git and GitHub/Assignments      —    □    ×

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub
$ mkdir Assignments

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub
$ cd Assignments

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments
$
```
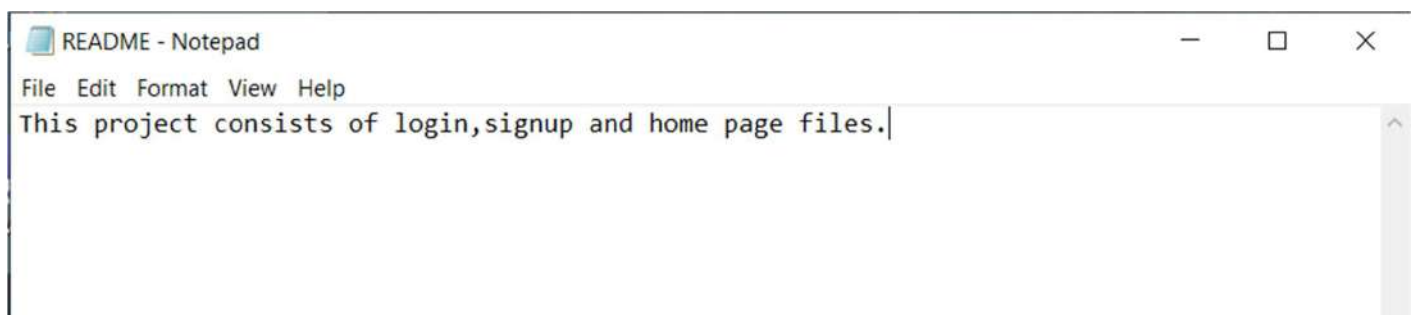
23.    Create a file README.txt inside 'Assignments' & write few lines about the contents of 'Assignments' folder.



```
MINGW64:/e/Assignments Implementation/git and GitHub/Assignments      —    □    ×

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments
$ touch README.txt

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments
$ start README.txt

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments
$
```
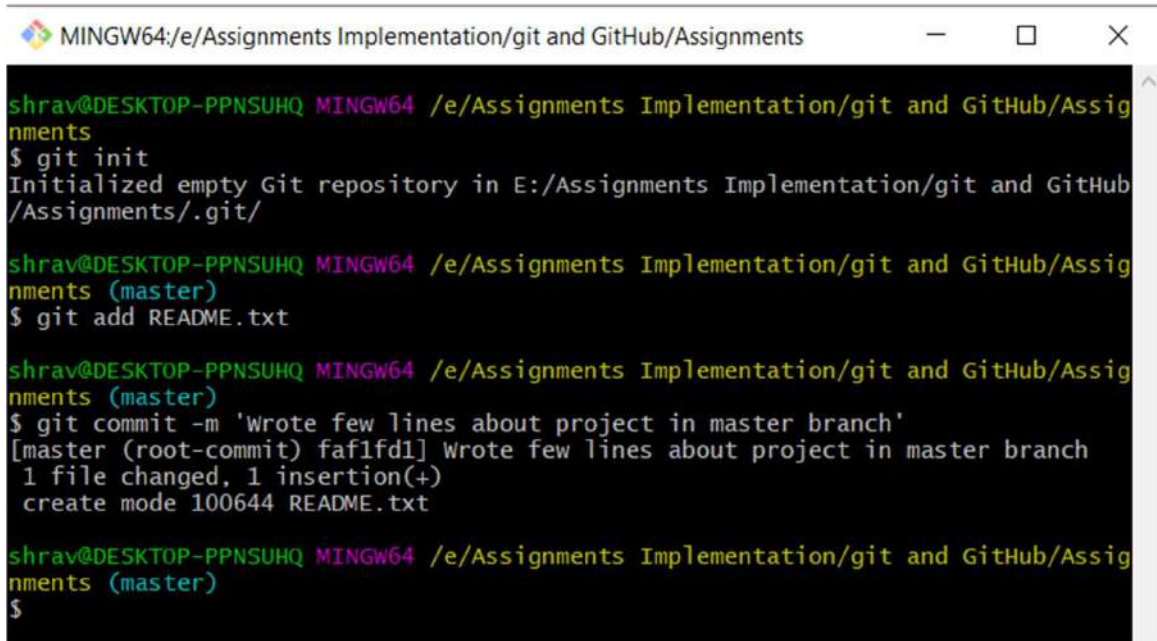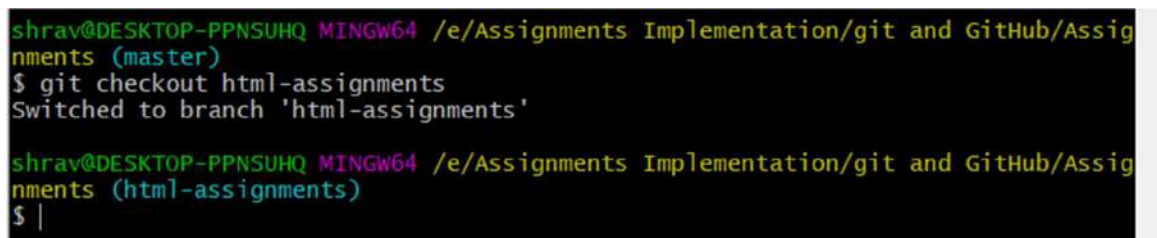


```
README - Notepad                                              —    □    ×
File  Edit  Format  View  Help
This project consists of login,signup and home page files.
```

24.     Commit README.txt file.



25.     Now create a new branch 'html-assignments'.



26.     Switch to 'html-assignments' branch.

27.	Copy all HTML assignments inside 'Assignments' folder.
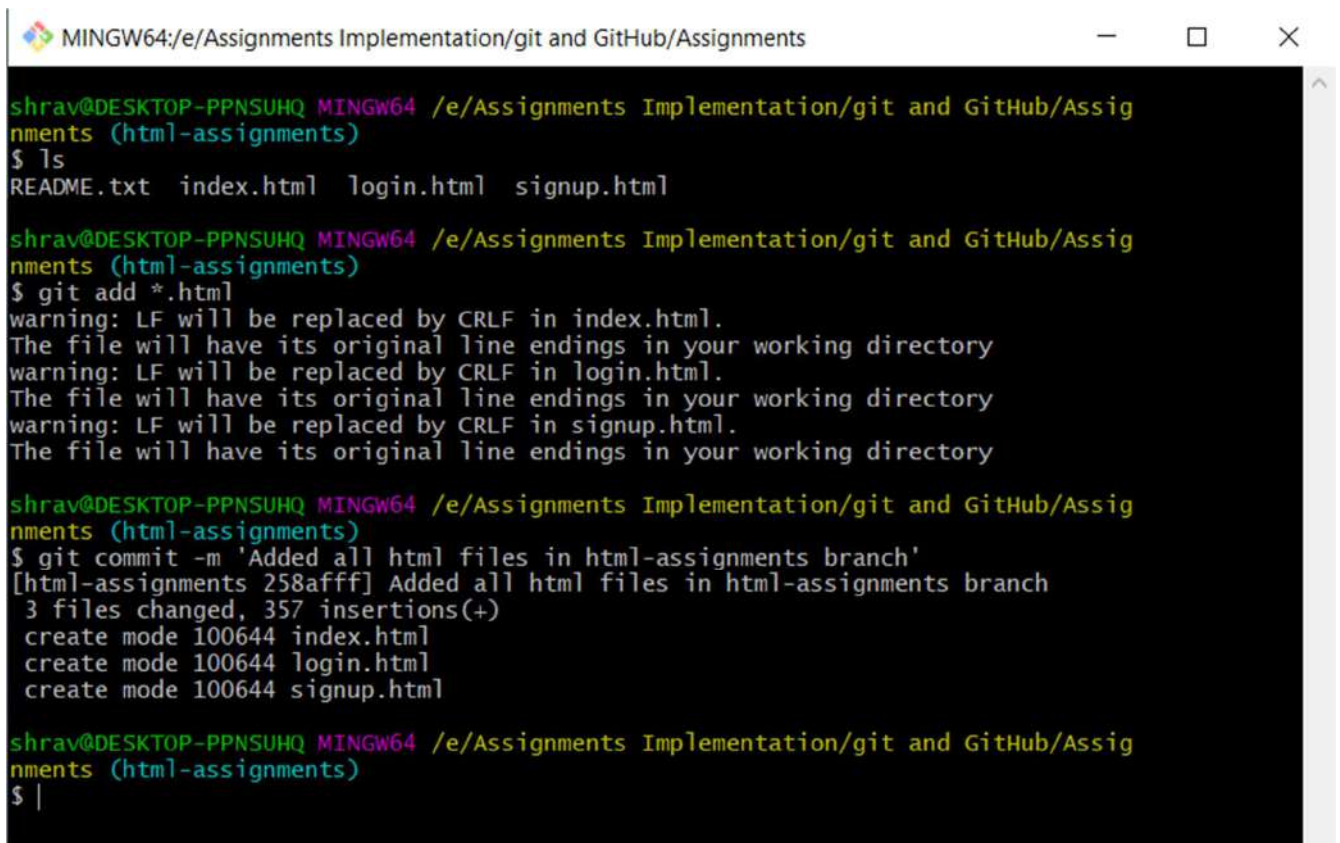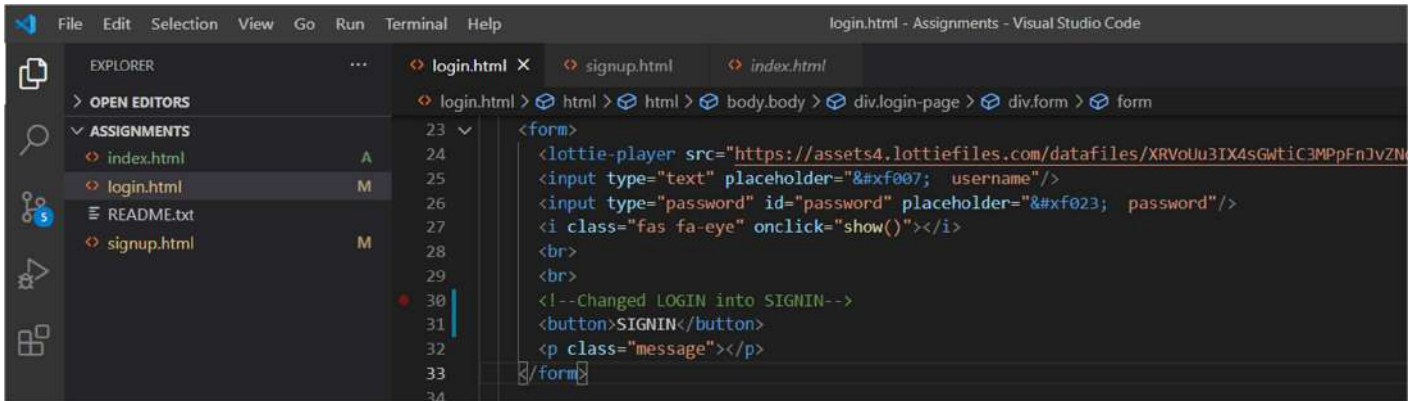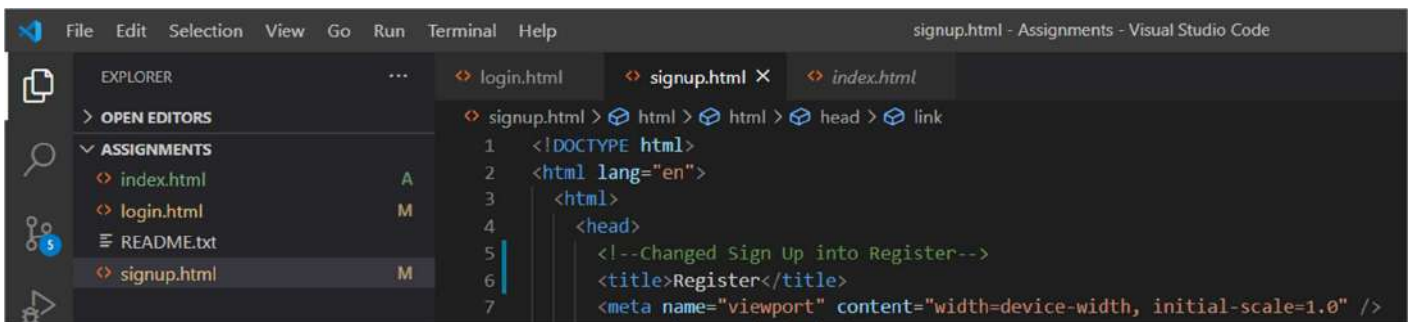
MINGW64:/e/Assignments Implementation/git and GitHub/Assignments — □ ×

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$ ls
README.txt  index.html  login.html  signup.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$
```

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

MINGW64:/e/Assignments Implementation/git and GitHub/Assignments — □ ×

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$ ls
README.txt  index.html  login.html  signup.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$ git add *.html
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in login.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in signup.html.
The file will have its original line endings in your working directory

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$ git commit -m 'Added all html files in html-assignments branch'
[html-assignments 258afff] Added all html files in html-assignments branch
 3 files changed, 357 insertions(+)
 create mode 100644 index.html
 create mode 100644 login.html
 create mode 100644 signup.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$ |
```

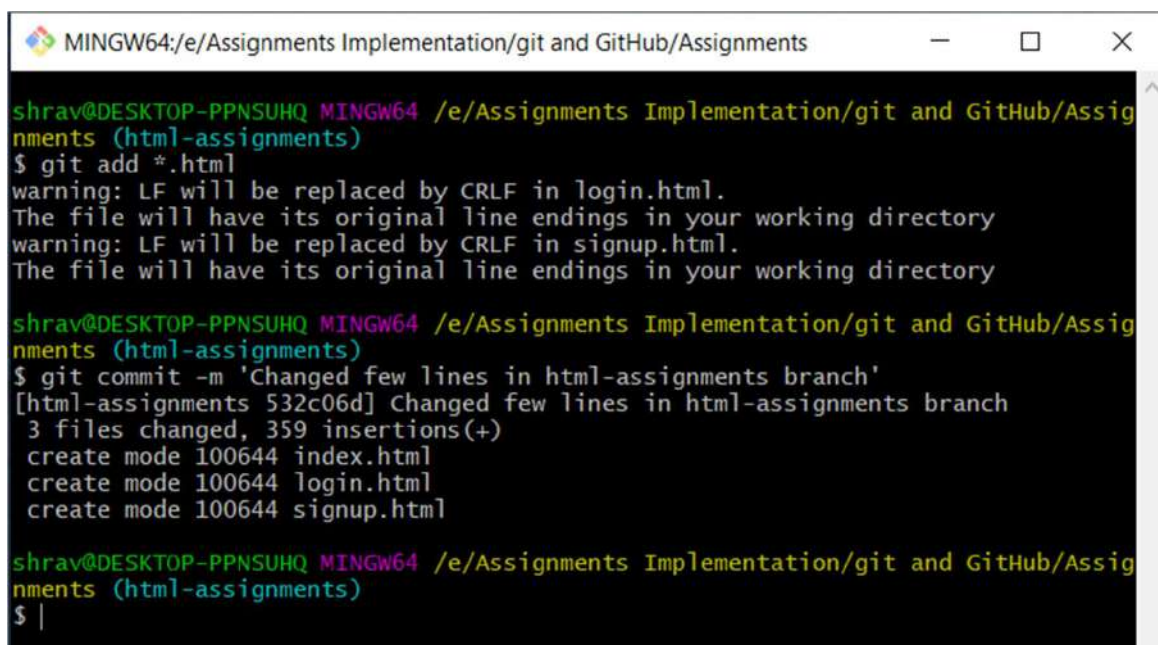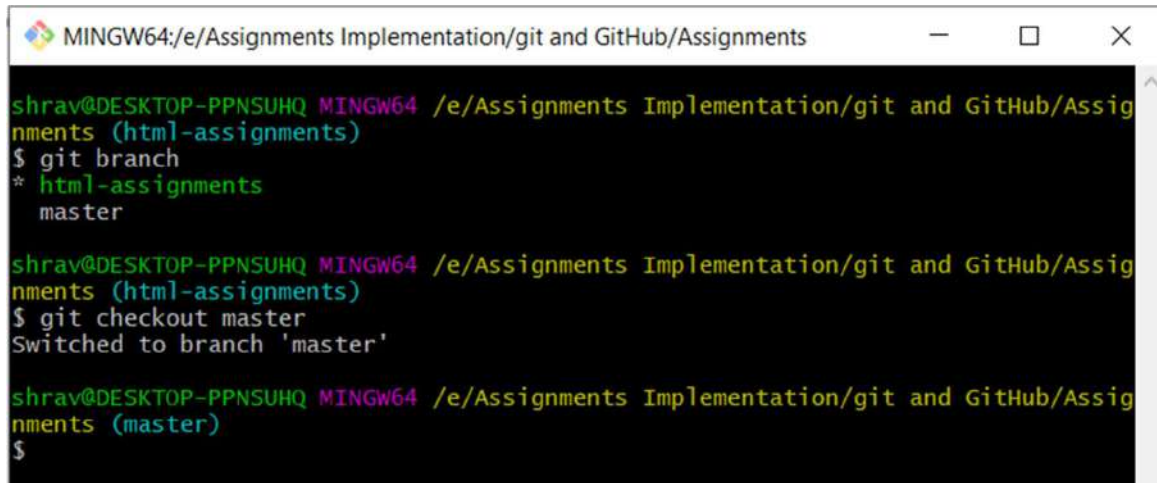29. Make minor changes into few files belonging to 'html-assignments' branch.





30. Commit those changed files.

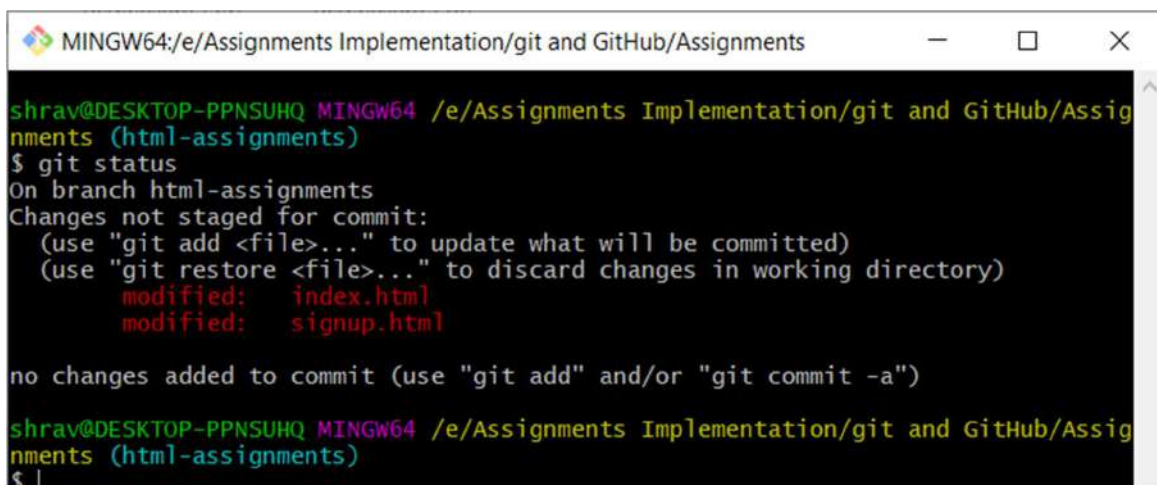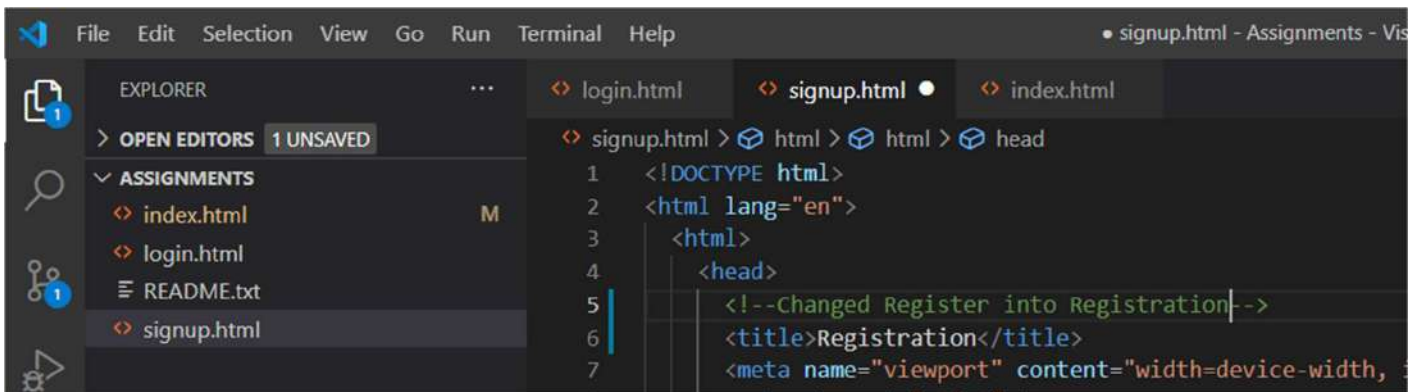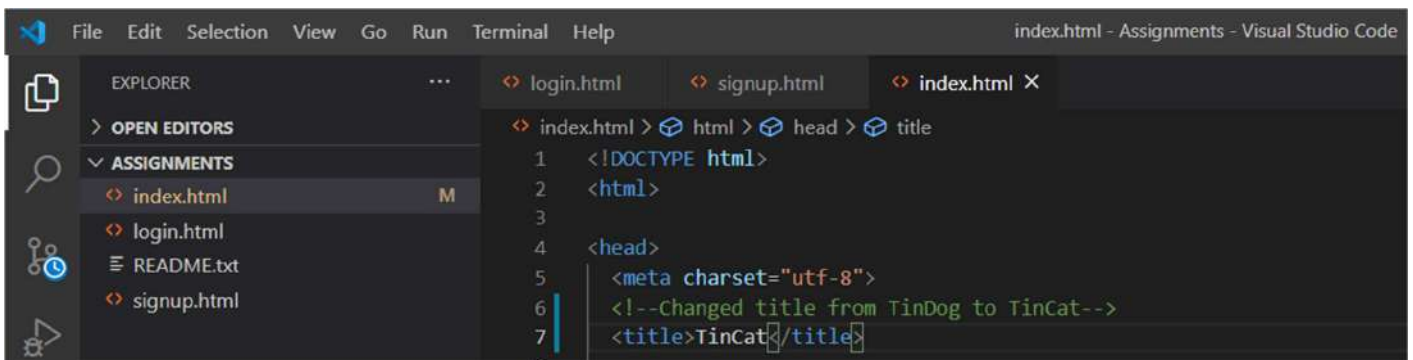31.     Switch to master branch.



```
MINGW64:/e/Assignments Implementation/git and GitHub/Assignments        —    □    ×

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$ git branch
* html-assignments
  master

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (html-assignments)
$ git checkout master
Switched to branch 'master'

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master)
$
```
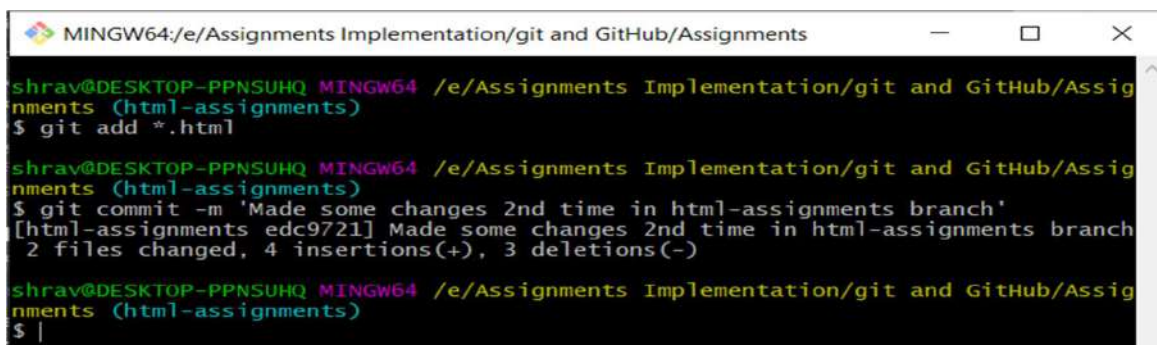
32.     Make minor changes into README.txt file & commit those changes into
master.



```
README - Notepad                                                        —    □    ×
File  Edit  Format  View  Help
This project consists of login,signup and home page files of 'TINDOG' company.
```



```
MINGW64:/e/Assignments Implementation/git and GitHub/Assignments        —    □    ×

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master)
$ start README.txt

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (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:   README.txt

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

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master)
$ |
```
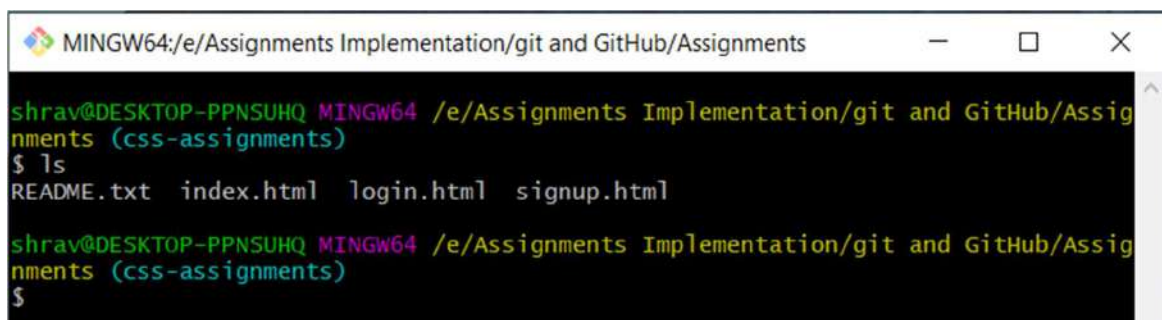
33. Again switch to 'html-assignments' branch.

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







35. Commit those changes

36.    Switch to master



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

38. Finally delete the 'html-assignments' branch

SECTION-2 - (CSS assignments) Steps to follow:

1. Create a new branch 'css-assignments'.



2. Switch to 'css-assignments' branch.



3. Copy all CSS assignments inside 'Assignments' folder.

4. Commit CSS assignments into 'css-assignments' branch.

5. Make minor changes into README.txt file on line 1 belonging to 'css-assignments' branch.



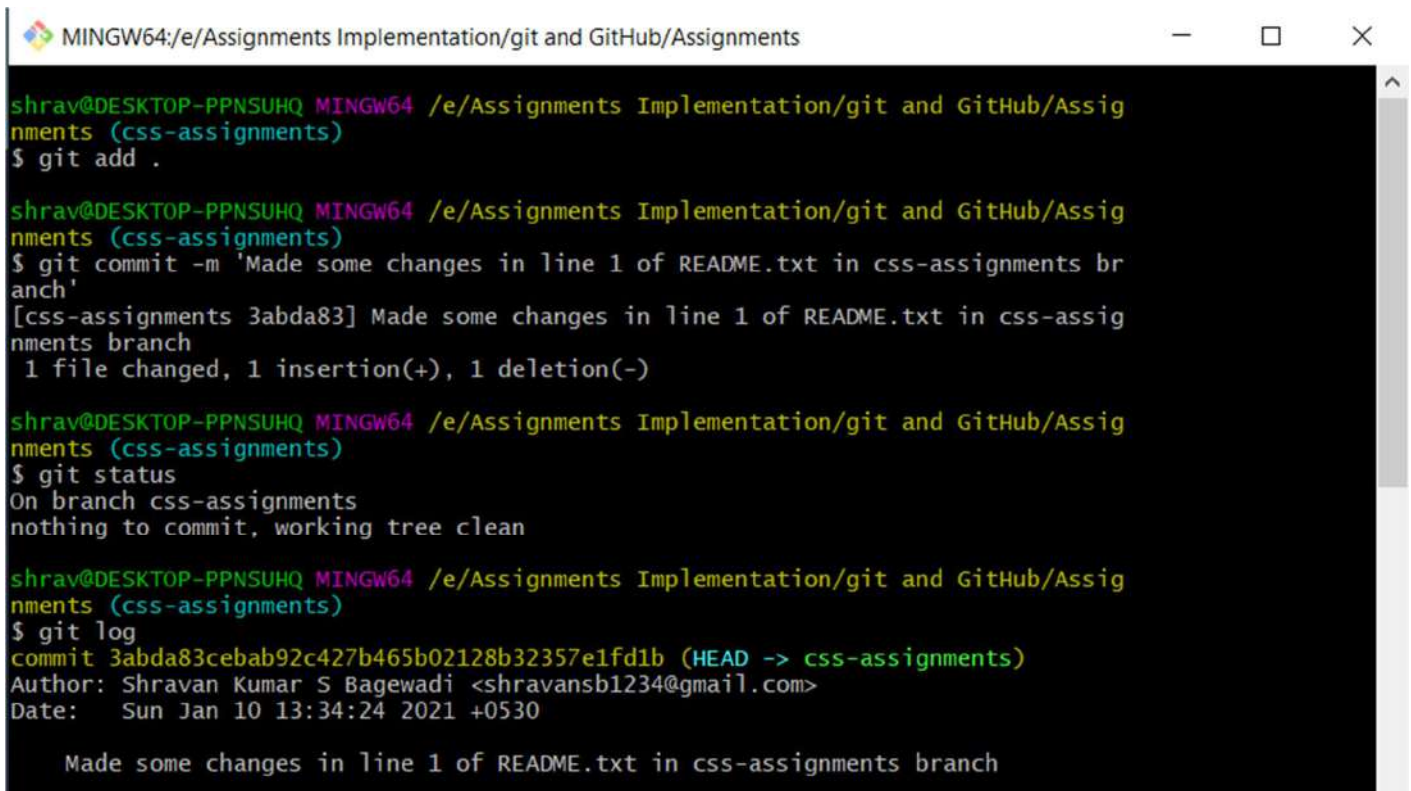6. Commit those changed files

7. Switch to master branch



8. Make minor changes into README.txt file on line 3 & commit those changes into master.

9. Again switch to 'css-assignments' branch.



10.   . Make minor changes into few files belonging to 'css-assignments' branch.

## 11. Commit those changes





## 12. . Switch to master.

13. Merge 'css-assignments' branch into master. Confirm all css assignments are shown in master

MINGW64:/e/Assignments Implementation/git and GitHub/Assignments — □ ✕

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master)
$ ls
README.txt  index.html  login.html  signup.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master)
$
```

MINGW64:/e/Assignments Implementation/git and GitHub/Assignments — □ ✕

```
<<<<<<< HEAD
This project consists of login,signup and home page files of 'TINDOG' company.
This project also includes css files.
=======
This project consists of login,signup and home page files of 'TINCAT' company.
>>>>>>> css-assignments
~
~
```

MINGW64:/e/Assignments Implementation/git and GitHub/Assignments — □ ✕

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master|MERGING)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Changes to be committed:
        new file:   index_style.css
        new file:   login_style.css
        new file:   signup_style.css

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   README.txt
```

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master|MERGING)
$ git add README.txt

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master|MERGING)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
        modified:   README.txt
        new file:   index_style.css
        new file:   login_style.css
        new file:   signup_style.css


shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assig
nments (master|MERGING)
$ |
```
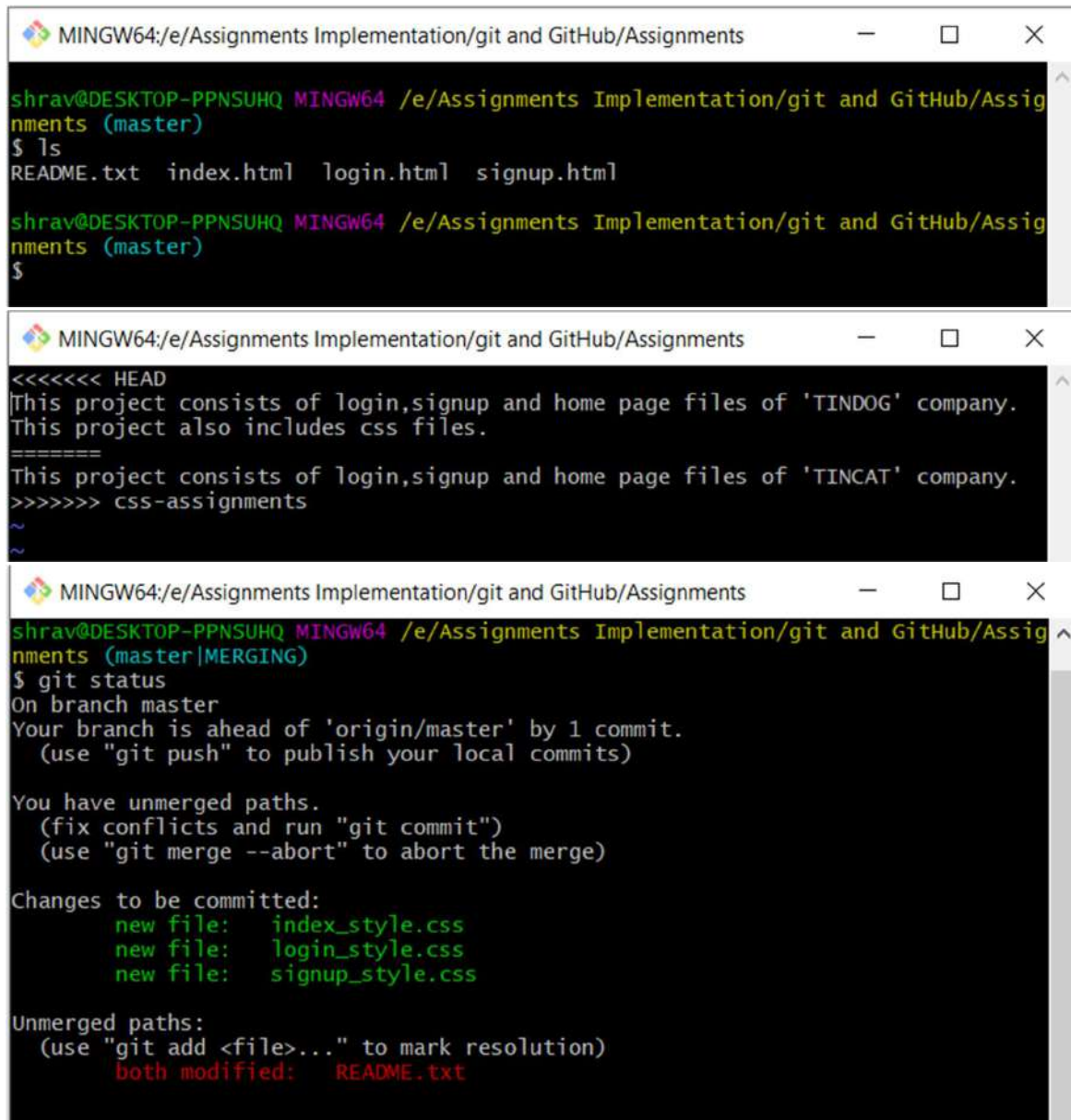
MINGW64:/e/Assignments Implementation/git and GitHub/Assignments                — □ ×

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assignments
(master|MERGING)
$ git commit
[master e11fe97] Merge branch 'css-assignments' Here we merged all the css files from c
ss-assignments branch to master branch

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assignments
(master)
$ git log
commit e11fe973e629f84eaf1880eec1e47b91cac6a08e (HEAD -> master)
Merge: de442ce 92d731c
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date:   Sun Jan 10 14:06:16 2021 +0530

    Merge branch 'css-assignments'
    Here we merged all the css files from css-assignments branch to master
    branch
```
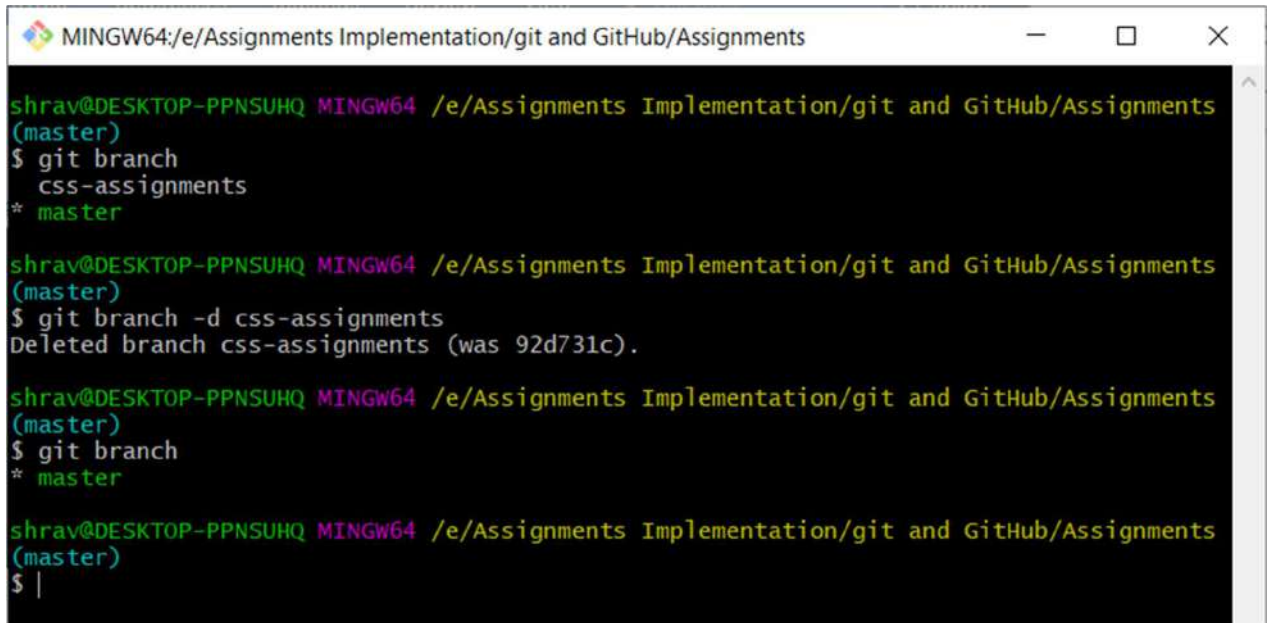
MINGW64:/e/Assignments Implementation/git and GitHub/Assignments                — □ ×

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assignments
(master)
$ git branch
  css-assignments
* master

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assignments
(master)
$ ls
README.txt   index_style.css   login_style.css   signup_style.css
index.html   login.html        signup.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assignments
(master)
$
```
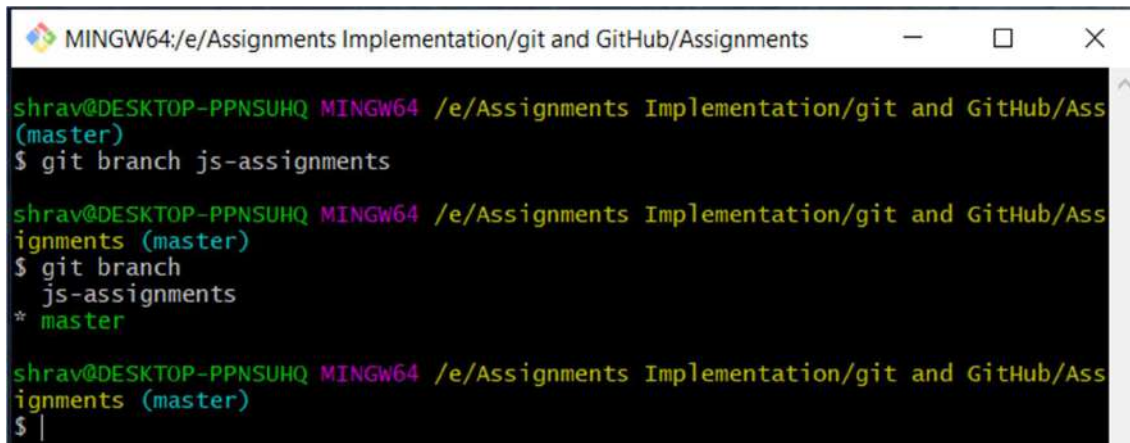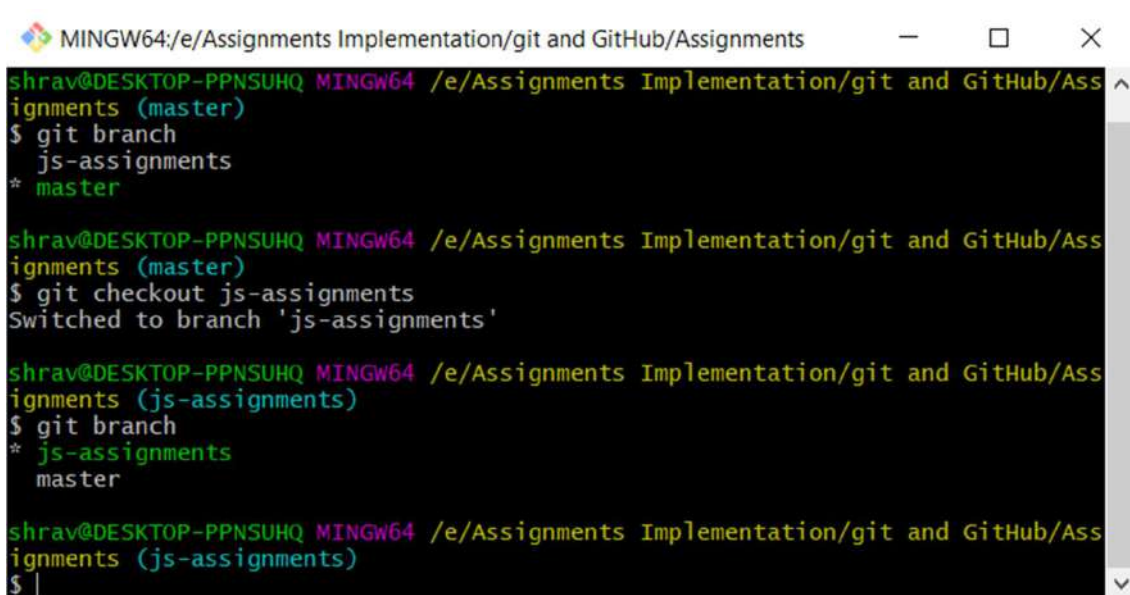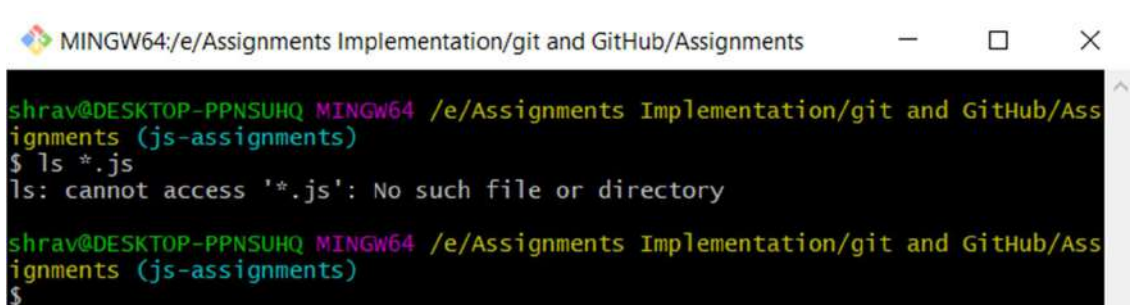
14. Finally delete the 'css-assignments' branch.

SECTION-3 - (JavaScript assignments) Steps to follow:

1. Create a new branch 'js-assignments'.



2. Switch to 'js-assignments' branch.



3. Copy all JavaScript assignments inside 'Assignments' folder

4. Commit JavaScript assignments into 'js-assignments' branch.



5. Make minor changes into README.txt file on line 1 belonging to 'js-assignments' branch.

6. Commit those changed files.



7. Switch to master branch.

8. Make minor changes into README.txt file on line 1 & commit those changes into master



9. Again switch to 'js-assignments' branch.

10.      Make minor changes into few files belonging to 'js-assignments' branch.





11.      Commit those changes.

12.  Switch to master



```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (js-assignments)
$ git branch
* js-assignments
  master

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (js-assignments)
$ 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)

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master)
$ git branch
  js-assignments
* master

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master)
$
```
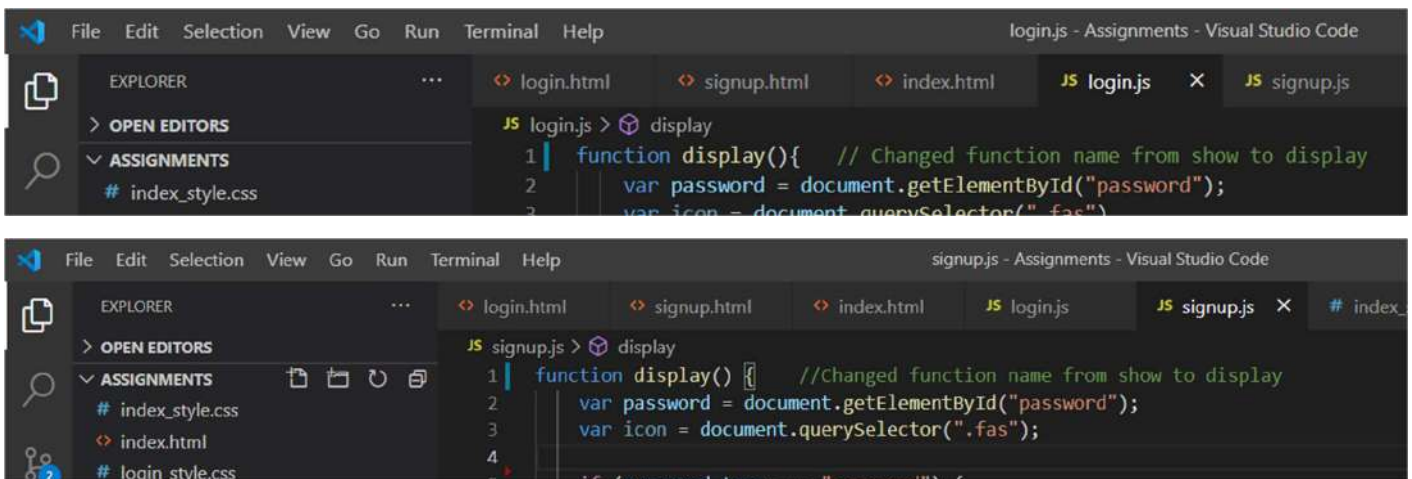
13.  Merge 'js-assignments' branch into master. Confirm all JavaScript assignments are shown in master



```
<<<<<<< HEAD
This project consists of login,register and home page files of 'TINDOG' company.
=======
This project consists of signin,signup and home page files of 'TINDOG' company.
>>>>>>> js-assignments
This project also includes css files.
~
~
~
```



```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master)
$ git merge js-assignments
Auto-merging README.txt
CONFLICT (content): Merge conflict in README.txt
Automatic merge failed; fix conflicts and then commit the result.

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master|MERGING)
$
```

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master|MERGING)
$ git add README.txt

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master|MERGING)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
        modified:   README.txt
        new file:   login.js
        new file:   signup.js


shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master|MERGING)
$ git commit
[master cabf7ac] Merge branch 'js-assignments' Merged js files from js-assignment
s branch to master branch

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master)
$ |
```
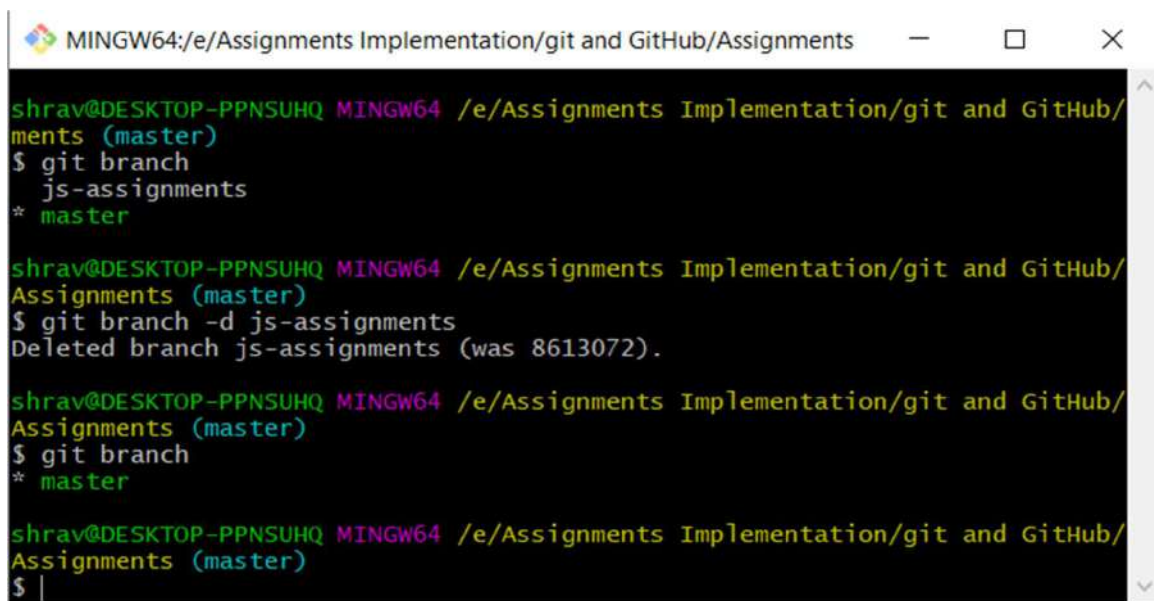
```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master)
$ git branch
  js-assignments
* master

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master)
$ ls *.js
login.js   signup.js

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/Assign
ments (master)
$
```

14.     Finally delete the 'js-assignments' branch.