Install GIT & make sure it is added into PATH.

Section 0 -Use GIT as local VCS. Steps to follow:

1. Create a directory 'project_dir' & cd to 'project_dir'.
2. Initialize git version database. (git init)
3. Create a new file index.html.
4. Check the git status. You should find index.html as untracked file.
5. Stage the index.html file.
6. Commit index.html
7. Make few changes in index.html & create a new file info.txt file.
8. Check git status. You should find index.html & info.txt as untracked files.
9. Configure GIT to ignore all txt files.
10. Again check the git status. You should find only index.html as untracked file.
11. State & commit index.html
12. Log all your comments so far.
13. Make some changes in index.html.
14. Revert the change made in the previous step using git command.
15. Again change index.html.
16. Stage index.html
17. Revert back the last stage.
18. Rename 'add' command to 'my-add'.
19. Using my_add command Stage index.html again & commit the changes.
20. Revert the last commit.

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro
$ git init
Initialized empty Git repository in C:/Users/VK30/Desktop/git_pro/.git/

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro (master)
$ mkdir project_dir

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro (master)
$ cd project_dir/

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ touch index.html

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git add .

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/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


vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git commit -m "first commit"
[master (root-commit) cfea38e] first commit
 Committer: K <vishnu.b.k@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. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

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 project_dir/index.html
```

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/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")

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ vi .gitignore

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/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)
        .gitignore

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

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git add .
warning: LF will be replaced by CRLF in project_dir/index.html.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in project_dir/.gitignore.
The file will have its original line endings in your working directory

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git commit -m "second commit"
[master 064a41e] second commit
 Committer: K <vishnu.b.k@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. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

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

    git commit --amend --reset-author

 2 files changed, 2 insertions(+)
 create mode 100644 project_dir/.gitignore

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git log
commit 064a41e761db081efa3e9672c96ed80ee191a91d (HEAD -> master)
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:54:28 2021 +0530

    second commit

commit cfea38e216627e890928239e27247f5cfc4cee18
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:48:58 2021 +0530

    first commit

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ vi index.html
```

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ cat index.html
add 1
add 2

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git log
commit af2be31383468b3f18ceab18f12ff59440afb979 (HEAD -> master)
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:57:14 2021 +0530

    revert commit

commit 064a41e761db081efa3e9672c96ed80ee191a91d
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:54:28 2021 +0530

    second commit

commit cfea38e216627e890928239e27247f5cfc4cee18
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:48:58 2021 +0530

    first commit

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git revert af2be31383468b3f18ceab18f12ff59440afb979
[master 773c87f] Revert "revert commit"
 Committer: K <vishnu.b.k@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. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

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

    git commit --amend --reset-author

 1 file changed, 1 insertion(+), 2 deletions(-)

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ cat index.html
add 1
```

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ vi index.html

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git add .

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git restore --staged index.html

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git config --global alias.my-add add

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git my-add .

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git commit -m "third commit"
[master 7712841] third commit
 Committer: K <vishnu.b.k@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, 1 insertion(+)

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git log
commit 7712841d44f515af5b249eaac431496c191c903e (HEAD -> master)
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 15:01:08 2021 +0530

    third commit

commit 773c87f6066a925f19a8902844e3c931954a9686
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:58:02 2021 +0530
```

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git reset --hard HEAD~1
HEAD is now at 773c87f Revert "revert commit"

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$ git log
commit 773c87f6066a925f19a8902844e3c931954a9686 (HEAD -> master)
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:58:02 2021 +0530

    Revert "revert commit"

    This reverts commit af2be31383468b3f18ceab18f12ff59440afb979.

commit af2be31383468b3f18ceab18f12ff59440afb979
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:57:14 2021 +0530

    revert commit

commit 064a41e761db081efa3e9672c96ed80ee191a91d
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:54:28 2021 +0530

    second commit

commit cfea38e216627e890928239e27247f5cfc4cee18
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 14:48:58 2021 +0530

    first commit

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/project_dir (master)
$
```

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'.
23. Create a file README.txt inside 'Assignments' & write few lines about the contents of 'Assignments' folder.
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.
28. Commit HTML assignments into 'html-assignments' branch.
29. Make minor changes into few files belonging to 'html-assignments' branch.
30. Commit those changed files.
31. Switch to master branch.
32. Make minor changes into README.txt file & commit those changes into 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.

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro (master)
$ ls
project_dir/

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro (master)
$ mkdir assignment

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro (master)
$ cd assignment/

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ vi README.txt

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git add .
warning: LF will be replaced by CRLF in assignment/README.txt.
The file will have its original line endings in your working directory

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git commit -m "first commit"
[master c41084f] first commit
 Committer: K <vishnu.b.k@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, 1 insertion(+)
 create mode 100644 assignment/README.txt

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git log
commit c41084f7f338fe6f46b5f6210f29a7c1c71c3ddf (HEAD -> master)
Author: K <vishnu.b.k@capgemini.com>
Date:   Sun Dec 19 15:15:54 2021 +0530

    first commit
```

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git checkout html-assignment
Switched to branch 'html-assignment'

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ vi html-file

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ git add .
warning: LF will be replaced by CRLF in assignment/html-file.
The file will have its original line endings in your working directory

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ git commit -m "html commit 1"
[html-assignment e3cca6d] html commit 1
 Committer: K <vishnu.b.k@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, 1 insertion(+)
 create mode 100644 assignment/html-file

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ git checkout master
Switched to branch 'master'

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ vi README.txt
```

```
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git add .
warning: LF will be replaced by CRLF in assignment/README.txt.
The file will have its original line endings in your working directory

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git commit -m "second commit for html"
[master 90f0df9] second commit for html
 Committer: K <vishnu.b.k@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, 1 insertion(+)

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git checkout html-assignment
Switched to branch 'html-assignment'

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ vi html-file

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ gti add .
bash: gti: command not found

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ git add .

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ git commit -m "third change for html"
[html-assignment c19a374] third change for html
 Committer: K <vishnu.b.k@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
```

```
git
vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (html-assignment)
$ git checkout master
Switched to branch 'master'

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git merge html-assignment
Merge made by the 'ort' strategy.
 assignment/html-file | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 assignment/html-file

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ ls
README.txt  html-file

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git branch -d html-assignment
Deleted branch html-assignment (was c19a374).

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ git branch
* master

vk30@LIN80033585 MINGW64 ~/Desktop/git_pro/assignment (master)
$ |
```

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

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch css-assignments

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout css-assignments
Switched to branch 'css-assignments'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ touch cssfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ nano cssfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git add .
warning: LF will be replaced by CRLF in cssfiles.txt.
The file will have its original line endings in your working directory

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git commit -m "css commit1"
[css-assignments a8ae8e0] css commit1
 1 file changed, 17 insertions(+)
 create mode 100644 cssfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ nano README.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git add .

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git commit -m "css commit2"
[css-assignments 1788879] css commit2
 1 file changed, 1 insertion(+), 1 deletion(-)
```

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git checkout master
Switched to branch 'master'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ nano README.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git add .

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git commit -m "m readme commit"
[master e122deb] m readme commit
 1 file changed, 2 insertions(+)

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git status
On branch master
nothing to commit, working tree clean
```

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout css-assignments
Switched to branch 'css-assignments'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ nano cssfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git add .

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git commit -m "css change"
[css-assignments 62309bf] css change
 1 file changed, 1 insertion(+)

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (css-assignments)
$ git checkout master
Switched to branch 'master'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git merge css-assignments
Auto-merging README.txt
CONFLICT (content): Merge conflict in README.txt
Automatic merge failed; fix conflicts and then commit the result.

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master|MERGING)
$ git status
On branch master
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Changes to be committed:
        new file:   cssfiles.txt

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


Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master|MERGING)
$ git add .

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master|MERGING)
$ git commit -m "css merge"
[master 98466e1] css merge

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git log
commit 98466e1618f7a6e83976c56d9693a6860c52ea7a (HEAD -> master)
Merge: e122deb 62309bf
Author: vishnu <vishnukalathilcr77@gmail.com>
Date:   Wed Oct 27 10:04:36 2021 +0530
```

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~
$ cd Assignments

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch
  css-assignments
* master

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch -d css-assignments
Deleted branch css-assignments (was 62309bf).

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch
* master

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git log
commit 98466e1618f7a6e83976c56d9693a6860c52ea7a (HEAD -> master)
Merge: e122deb 62309bf
Author: vishnu <vishnukalathilcr77@gmail.com>
Date:    Wed Oct 27 10:04:36 2021 +0530

    css merge

commit 62309bf21809bb439047e29a85a33018d29d5b05
Author: vishnu <vishnukalathilcr77@gmail.com>
Date:    Wed Oct 27 10:00:37 2021 +0530

    css change
```

Steps:
make new dir and readme file
commit readme
git branch css-assignments
create new file and add some contents
make changes and commit the file
git checkout master
make changes in readme and commit
git checkout css-assignments
change in files and commit
switch to master
git marge css-assignments
git branch -d css-assignments
ls

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.
13. Merge 'js-assignments' branch into master. Confirm all JavaScript assignments are shown in master.
14. Finally delete the 'js-assignments' branch.

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch js-assignments

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ touch jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ nano jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ nano README.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout js assignments
error: pathspec 'js' did not match any file(s) known to git
error: pathspec 'assignments' did not match any file(s) known to git

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout js-assignments
Switched to branch 'js-assignments'
M       README.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ touch jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ nano jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git add .
warning: LF will be replaced by CRLF in jsfiles.txt.
The file will have its original line endings in your working directory

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git commit -m "js1"
[js-assignments 7c14ca9] js1
 2 files changed, 8 insertions(+)
 create mode 100644 jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git status
On branch js-assignments
nothing to commit, working tree clean
```

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git checkout master
Switched to branch 'master'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git status
On branch master
nothing to commit, working tree clean

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ nano README.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout js-assignments
Switched to branch 'js-assignments'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git status
On branch js-assignments
nothing to commit, working tree clean

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git checkout master
Switched to branch 'master'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ nano README.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git add .

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git commit -m "change for js in master"
[master 25084b6] change for js in master
 1 file changed, 1 insertion(+), 1 deletion(-)

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout js-assignment
error: pathspec 'js-assignment' did not match any file(s) known to git

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout js-assignments
Switched to branch 'js-assignments'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ ls
README.txt  cssfiles.txt  jsfiles.txt  newfile.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ nano jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git add .
```

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git checkout master
Switched to branch 'master'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git merger js-assignments
git: 'merger' is not a git command. See 'git --help'.

The most similar command is
        merge

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git merge js-assignments
Auto-merging README.txt
Merge made by the 'recursive' strategy.
 README.txt  | 1 +
 jsfiles.txt | 8 ++++++++
 2 files changed, 9 insertions(+)
 create mode 100644 jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git status
On branch master
nothing to commit, working tree clean

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch
  js-assignments
* master

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ nano jsfiles.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ ls
README.txt  cssfiles.txt  jsfiles.txt  newfile.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git checkout js-assignments
Switched to branch 'js-assignments'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ ls
README.txt  cssfiles.txt  jsfiles.txt  newfile.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ nano README.txt

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (js-assignments)
$ git checkout master
Switched to branch 'master'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ nano README.txt
```

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch -d js-assignments
Deleted branch js-assignments (was 439c2f3).

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git brach
git: 'brach' is not a git command. See 'git --help'.

The most similar command is
        branch

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ git branch
* master

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (master)
$ ls
README.txt  cssfiles.txt  jsfiles.txt  newfile.txt
```

steps:

make new dir and readme file

commit readme

git branch js-assignments

create new file and add some contents

make changes and commit the file

git checkout master

make changes in readme and commit

git checkout js-assignments

change in files and commit

switch to master

git marge js-assignments

git branch -d js--assignments

ls

GIT Remoting

Objective: Pushing source code into GITHUB & collaborate team members.

SECTION-3 (Pushing assignments to remote repository) - Steps to follow:

39. Create a github account if you do not have already.
40. Login on into github account.
41. Create new public repository 'freshersbatch-oct16'.
42. Commit & push any sample file to this repository under 'Assignments' directory.

```
Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (main)
$ git remote add origin https://github.com/Vizzwastaken/freshersbatch-oct16.git

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (main)
$ git branch -M main

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (main)
$ git push -u origin main
error: unable to read askpass response from 'C:/Program Files/Git/mingw64/bin/git-askpass.exe'

Vishnu@DESKTOP-OKPSKLB MINGW64 ~/Assignments (main)
$ git push -u origin main
Logon failed, use ctrl+c to cancel basic credential prompt.
Enumerating objects: 49, done.
Counting objects: 100% (49/49), done.
Delta compression using up to 4 threads
Compressing objects: 100% (44/44), done.
Writing objects: 100% (49/49), 5.29 KiB | 154.00 KiB/s, done.
Total 49 (delta 13), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (13/13), done.
To https://github.com/Vizzwastaken/freshersbatch-oct16.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
```

⑂ main ▾	⑂ 1 branch	⬙ 0 tags		Go to file	Add file ▾	Code ▾

	Vizzwastaken Merge branch 'js-assignments'		246518e 2 hours ago	⏱ 16 commits
🗋 README.txt	Merge branch 'js-assignments'			2 hours ago
🗋 cssfiles.txt	css change			3 hours ago
🗋 jsfiles.txt	js2			2 hours ago
🗋 newfile.txt	third commit			4 hours ago

README.txt   ✎

```
This is the HTML assignment change for js part.
change in this line.


This is the HTML assignment and css.
this is js file change.
```

Steps:

go to github make a new repo
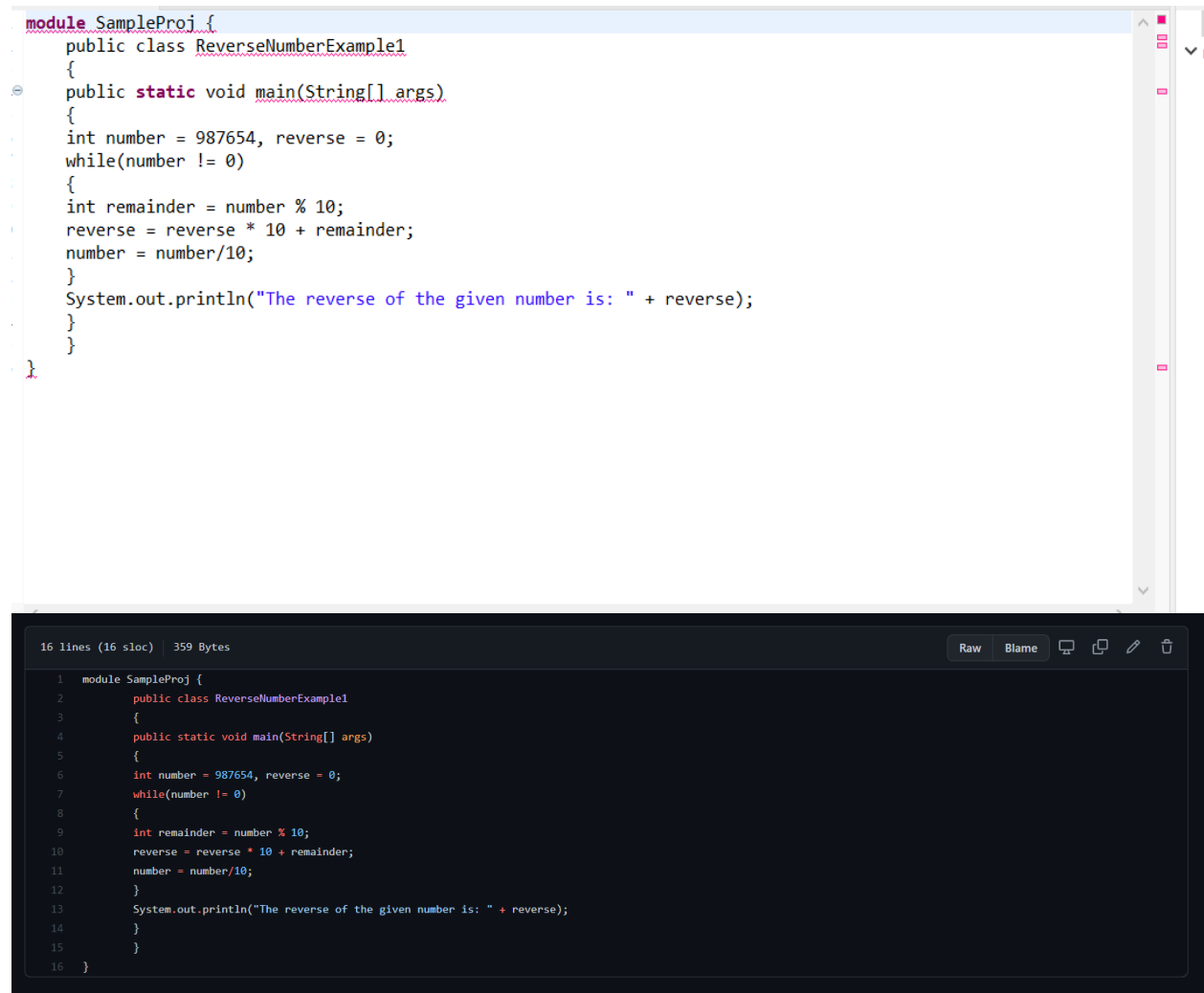*get the url of the repo*
git remote add origin link
git branch -M main
git push -u origin main
enter credentials

SECTION-4 (Pushing source code to remote repository using Eclipse GIT plugin) - Steps to follow:

1. One developer from project team will create eclipse projects 'SampleProj' & add sample source code files. Then commit all files through eclipse GIT plugin.
2. Collaborate other team members with your github account so that they can also modify the committed files.
3. Other developers from same team will checkout all files from remote repository. This might get conflicts since certain files fail to merge. In such case, merge it manually.
4. Commit & push the 'SampleProj' project.

```java
module SampleProj {
    public class ReverseNumberExample1
    {
    public static void main(String[] args)
    {
    int number = 987654, reverse = 0;
    while(number != 0)
    {
    int remainder = number % 10;
    reverse = reverse * 10 + remainder;
    number = number/10;
    }
    System.out.println("The reverse of the given number is: " + reverse);
    }
    }
}
```

16 lines (16 sloc) | 359 Bytes   Raw   Blame

```java
1   module SampleProj {
2           public class ReverseNumberExample1
3           {
4           public static void main(String[] args)
5           {
6           int number = 987654, reverse = 0;
7           while(number != 0)
8           {
9           int remainder = number % 10;
10          reverse = reverse * 10 + remainder;
11          number = number/10;
12          }
13          System.out.println("The reverse of the given number is: " + reverse);
14          }
15          }
16  }
```