1.Create a directory ‘project\_dir’ & cd to ‘project\_dir’.

Dell@DESKTOP-GN7CG4P MINGW64 ~

$ git --version

git version 2.33.1.windows.1

Dell@DESKTOP-GN7CG4P MINGW64 ~

$ git help config

Dell@DESKTOP-GN7CG4P MINGW64 ~

$ git config --help

Dell@DESKTOP-GN7CG4P MINGW64 ~

$ mkdir project\_dir

Dell@DESKTOP-GN7CG4P MINGW64 ~

$ cd project\_dir

2.Initialize git version database. (git init)

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir

$ git init

Initialized empty Git repository in C:/Users/Dell/project\_dir/.git/

3.Create a new file index.html.

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ touch index.html

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git status

On branch master

No commits yet

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)

5.Stage the index.html file.

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git add index.html

6.Commit index.html

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git commit -m"Committing a html file"

[master (root-commit) 990c27e] Committing a html file

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 index.html

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ touch info.txt

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

Dell@DESKTOP-GN7CG4P 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

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")

9.Configure GIT to ignore all txt files.

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git add \*.txt

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: info.txt

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

11.State & commit index.html

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git add index.html

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git commit -m"Committing a html file"

[master e403e55] Committing a html file

2 files changed, 1 insertion(+), 1 deletion(-)

create mode 100644 info.txt

12.Log all your comments so far.

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git log

commit e403e5500246586256135489f74e56e7173b8039 (HEAD -> master)

Author: rahulshaik0175 <rahulshaik0175@gmail.com>

Date: Tue Oct 26 13:17:44 2021 +0530

Committing a html file

commit d102a777d9085c3b58628286fbb4812f5d829914

Author: rahulshaik0175 <rahulshaik0175@gmail.com>

Date: Tue Oct 26 13:08:28 2021 +0530

committing a html file

commit 990c27ebfbfa56657d6d756ab64bd20e0fbd369c

Author: rahulshaik0175 <rahulshaik0175@gmail.com>

Date: Tue Oct 26 13:02:26 2021 +0530

Committing a html file

13.Make some changes in index.html.

Dell@DESKTOP-GN7CG4P 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")

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git checkout index.html

Updated 1 path from the index

15.Again change index.html.

Dell@DESKTOP-GN7CG4P 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")

16.Stage index.html

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git add index.html

17.Revert back the last stage.

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git log

commit f71fce5ec507b38d6b3ae1970bced0c02fbc5560 (HEAD -> master)

Author: rahulshaik0175 <rahulshaik0175@gmail.com>

Date: Tue Oct 26 13:59:02 2021 +0530

Revert "Committing the file"

This reverts commit 47e0b1f7919d2cf308d0485c5102f304482e50c0.

18.Rename ‘add’ command to ‘my-add’.

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git config --global alias.my-add add

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git commit -m "Committ the file belongs to html"

On branch master

nothing to commit, working tree clean

20.Revert the last commit.

Dell@DESKTOP-GN7CG4P MINGW64 ~/project\_dir (master)

$ git reset --hard e403e5500246586256135489f74e56e7173b8039

HEAD is now at e403e55 Committing a html file

*GIT Branching*

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’.

Dell@DESKTOP-GN7CG4P MINGW64 ~

$ mkdir Assignments

Dell@DESKTOP-GN7CG4P MINGW64 ~

$ cd Assignments

23.Create a file README.txt inside ‘Assignments’ & write few lines about the contents of ‘Assignments’ folder.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments

$ touch README.txt

24.Commit README.txt file.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git add README.txt

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git commit -m"Committing a text file in Assignements"

[master (root-commit) 25fad11] Committing a text file in Assignements

1 file changed, 1 insertion(+)

create mode 100644 README.txt

25.Now create a new branch ‘html-assignments’.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git branch html-assignments

26.Switch to ‘html-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

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.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (html-assignments)

$ git add .

30.Commit those changed files.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (html-assignments)

$ git commit -m"modified html"

[html-assignments 5e8492c] modified html

1 file changed, 12 insertions(+)

create mode 100644 Home.html

31.Switch to master branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (html-assignments)

$ git checkout master

Switched to branch 'master'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git add .

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git commit -m"modified home html file"

[master 802b632] modified home html file

1 file changed, 10 insertions(+)

create mode 100644 Home.html

33.Again switch to ‘html-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (html-assignments)

$ git add .

35.Commit those changes.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (html-assignments)

$ git commit -m"modified html for second time"

[html-assignments 2c8edd2] modified html for second time

1 file changed, 1 insertion(+), 3 deletions(-)

36.Switch to master.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (html-assignments)

$ git checkout master

Switched to branch 'master'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git merge html-assignments

CONFLICT (add/add): Merge conflict in Home.html

Auto-merging Home.html

Automatic merge failed; fix conflicts and then commit the result.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git merge html-assignments

Already up to date.

38.Finally delete the ‘html-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git branch -D html-assignments

Deleted branch html-assignments (was 2c8edd2).

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

1.Create a new branch ‘css-assignments’.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git branch css-assignments

2.Switch to ‘css-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

3.Copy all CSS assignments inside ‘Assignments’ folder.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git add .

4.Commit CSS assignments into ‘css-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git commit -m"css added"

[css-assignments 517633f] css added

1 file changed, 28 insertions(+)

create mode 100644 style.css

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ ls

Home.html README.txt style.css

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git add .

6.Commit those changed files.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git commit -m "changed in readme text file"

[css-assignments 58248ec] changed in readme text file

2 files changed, 3 insertions(+), 3 deletions(-)

7.Switch to master branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git checkout master

Switched to branch 'master'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git add .

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git commit -m" changed in read txt file"

[master b61cf68] changed in read txt file

1 file changed, 1 insertion(+), 1 deletion(-)

9.Again switch to ‘css-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git add .

11.Commit those changes.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git commit -m"Committing css "

[css-assignments c123284] Committing css

1 file changed, 1 insertion(+), 1 deletion(-)

12.Switch to master.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (css-assignments)

$ git checkout master

Switched to branch 'master'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git add .

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git commit -m "committting manually"

On branch master

nothing to commit, working tree clean

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master|MERGING)

$ git add .

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master|MERGING)

$ git commit -m"modified css"

[master eae86a6] modified css

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git merge css-assignments

Already up to date.

14.Finally delete the ‘css-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git branch -D css-assignments

Deleted branch css-assignments (was c123284).

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

1.Create a new branch ‘js-assignments’.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git branch js-assignments

2.Switch to ‘js-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

3.Copy all JavaScript assignments inside ‘Assignments’ folder.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git add .

4.Commit JavaScript assignments into ‘js-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git commit -m "Js file is added"

[js-assignments 61fe615] Js file is added

1 file changed, 14 insertions(+)

create mode 100644 Hello.js

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git add .

6.Commit those changed files.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git commit -m "commited in the read and js file"

[js-assignments b26d7da] commited in the read and js file

1 file changed, 1 insertion(+)

7.Switch to master branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git checkout master

Switched to branch 'master'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git add .

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git commit -m"committed changes are in readme and js"

[master 0f3b48a] committed changes are in readme and js

2 files changed, 15 insertions(+)

create mode 100644 Hello.js

9.Again switch to ‘js-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

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

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git add .

11.Commit those changes.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git commit -m "committing changes in js file of branch"

[js-assignments f9d0bb3] committing changes in js file of branch

1 file changed, 1 insertion(+), 1 deletion(-)

12.Switch to master.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (js-assignments)

$ git checkout master

Switched to branch 'master'

13.Merge ‘js-assignments’ branch into master. Confirm all JavaScript assignments are shown in master.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git merge js-assignments

Auto-merging README.txt

CONFLICT (content): Merge conflict in README.txt

CONFLICT (add/add): Merge conflict in Hello.js

Auto-merging Hello.js

Automatic merge failed; fix conflicts and then commit the result.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master|MERGING)

$ git add .

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master|MERGING)

$ git commit -m"Commit manually"

[master 2ab7bd6] Commit manually

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git merge js-assignments

Already up to date.

14.Finally delete the ‘js-assignments’ branch.

Dell@DESKTOP-GN7CG4P MINGW64 ~/Assignments (master)

$ git branch -D js-assignments

Deleted branch js-assignments (was f9d0bb3).