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

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

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

Step-1

Text

Description automatically generated with medium confidence

Step-2

Text

Description automatically generated

Step-3

Text

Description automatically generated

Step-4

Graphical user interface, text, application

Description automatically generated

Step-5

Text

Description automatically generated

Step-6

Text

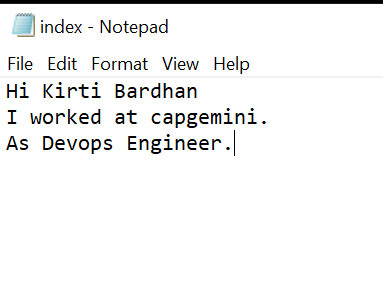
Description automatically generated

Step-7

Text

Description automatically generated

Step-8



Step-9

Text

Description automatically generated

Step-10

Text

Description automatically generated

Step-11

Text

Description automatically generated

Step-12

Text

Description automatically generated

Step-13

Text

Description automatically generated

Step-14

Text

Description automatically generated

GIT Branching

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

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

1. First take a backup of your assignments & projects. This is required because due to incorrect GIT operation you may lose your files.
2. Create an empty directory ‘Assignments’ & cd to ‘Assignments’.
3. Create a file README.txt inside ‘Assignments’ & write few lines about the contents of ‘Assignments’ folder.
4. Commit README.txt file.
5. Now create a new branch ‘html-assignments’.
6. Switch to ‘html-assignments’ branch.
7. Copy all HTML assignments inside ‘Assignments’ folder.
8. Commit HTML assignments into ‘html-assignments’ branch.
9. Make minor changes into few files belonging to ‘html-assignments’ branch.
10. Commit those changed files.
11. Switch to master branch.
12. Make minor changes into README.txt file & commit those changes into master.
13. Again switch to ‘html-assignments’ branch.
14. Make minor changes into few files belonging to ‘html-assignments’ branch.
15. Commit those changes.
16. Switch to master.
17. Merge ‘html-assignments’ branch into master. Confirm all html assignments are shown in master.
18. Finally delete the ‘html-assignments’ branch.

Step-1

Text

Description automatically generated

Step-2

Text

Description automatically generated

Step-3

Text

Description automatically generated

Step-4

Text

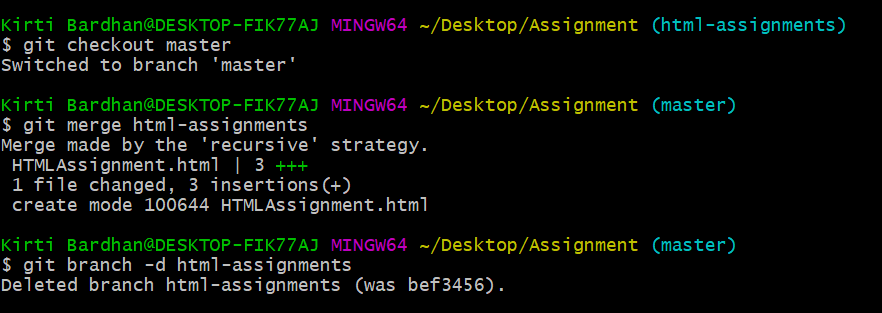
Description automatically generated

Step-5

Text

Description automatically generated

Step-6



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.

Step-1

Text

Description automatically generated

Step-2

Text

Description automatically generated

Step-3

Text

Description automatically generated

Step-4

Text

Description automatically generated

Step-5

Text

Description automatically generated

Step-6

Text

Description automatically generated

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.

Step-1

Text

Description automatically generated

Step-2

Text

Description automatically generated

Step-3

Text

Description automatically generated

Step-4

Text

Description automatically generated

Step-5

Text

Description automatically generated

Changes in the files:

Text

Description automatically generated

GIT Remoting

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

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

1. Create a github account if you do not have already.
2. Login on into github account.
3. Create new public repository ‘freshersbatch-oct16’.
4. Commit & push any sample file to this repository under ‘Assignments’ directory.

Step -1

Text

Description automatically generated

Step -2

Text

Description automatically generated

Final code pushed to github:

A screenshot of a computer

Description automatically generated

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.