Name: Pragati Borse

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’.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo

& mkdir project\_dir

pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo

$ cd project\_dir

2.Initialize git version database. (git init)

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo

$ git init

3.Create a new file index.html.

Ans.pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ touch index.html

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git status

5.Stage the index.html file.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git add index.html

6.Commit index.html

Ans. . pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git commit -m “index.html file commit from local machine”

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ touch info.txt

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

Ans. . pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git status

9.Configure GIT to ignore all txt files.

$ touch. gitignore

$ touch \*.txt

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

Ans.$ git status

11.State & commit index.html

Ans.$ git add index.html

$ git commit -m “commit index.html file”

12.Log all your comments so far.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git --all

unknown option: --all

usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]

[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]

[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]

[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]

[--super-prefix=<path>] [--config-env=<name>=<envvar>]

<command> [<args>]

13.Make some changes in index.html.

Ans. Made some changes manually.

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git diff head

diff --git a/index.html b/index.html

index aff92a9..dc2abde 100644

--- a/index.html

+++ b/index.html

15.Again change index.html.

Ans. Changed index.html

$ 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

16.Stage index.html

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git add index.html

17.Revert back the last stage.git

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git log --oneline

735b83e (HEAD -> master) changed the html file

5f75a05 added file

e2a3544 commit index.html file

9d2a57a index.html file commit from local machine

18.Rename ‘add’ command to ‘my-add’.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git mv add my-add

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git add .

pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git commit -m "chage by adding"

[master a002f3d] chage by adding

20.Revert the last commit.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git log --oneline

a002f3d (HEAD -> master) chage by adding

pragbors@LIN24009085 MINGW64 ~/Desktop/git\_demo/project\_dir (master)

$ git reset a002f3d

*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’.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1 (master)

$ mkdir Assignments

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1 (master)

$ cd Assignments

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ touch README.txt

24.Commit README.txt file.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git add README.txt

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git commit -m "commiting README.txt file"

[master (root-commit) ec226a3] commiting README.txt file

1 file changed, 1 insertion(+)

create mode 100644 README.txt

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git commit

On branch master

nothing to commit, working tree clean

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git branch html-assignments

26.Switch to ‘html-assignments’ branch.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/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.

Ans. Made some changes manually.

30.Commit those changed files.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (html-assignments)

$ git commit -m "added m1.txt file"

[html-assignments c608bb2] added m1.txt file

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

create mode 100644 m1.txt

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (html-assignments)

$ git status

On branch html-assignments

nothing to commit, working tree clean

31.Switch to master branch.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (html- assignments)

$ git checkout master

Switched to branch 'master'

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git commit -m "added README.txt file"

[master c174611] added README.txt file

1 file changed, 2 insertions(+), 1 deletion(-)

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git checkout html-assignments

34.Switched to branch 'html-assignments'

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

Ans. Made some changes manually.

35.Commit those changes.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (html-assignments)

$ git commit -m "added m2.txt file"

[html-assignments 302a8b4] added m2.txt file

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

create mode 100644 m2.txt

36.Switch to master.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/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.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git merge html-assignments

Updating c174611..00ae869

Fast-forward

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git branch -d html-assignments

cDeleted branch html-assignments (was 00ae869).

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

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git branch css-assignments

2.Switch to ‘css-assignments’ branch.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (css-assignments)

$ git commit -m "copy the file"

On branch css-assignments

Untracked files:

(use "git add <file>..." to include in what will be committed)

f1.css

file1.txt

nothing added to commit but untracked files present (use "git add" to track)

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (css-assignments)

$ git add .

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

Ans. made some changes manually.

6.Commit those changed files.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (css-assignments)

$ git add .

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (css-assignments)

$ git commit -m "changed the readme file"

[css-assignments 9562a57] changed the readme file

3 files changed, 8 insertions(+), 1 deletion(-)

create mode 100644 f1.css

create mode 100644 file1.txt

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (css-assignments)

$ git commit

On branch css-assignments

nothing to commit, working tree clean

7.Switch to master branch.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/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.

Ans. Made some changes manually.

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

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

Ans. Made the changes manually.

11.Commit those changes.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (css-assignments)

$ git commit

On branch css-assignments

nothing to commit, working tree clean

12.Switch to master.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/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.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/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: f1.css

new file: file1.txt

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git branch -d css-assignments

Deleted branch css-assignments (was 95632f0).

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

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git branch js-assignments

2.Switch to ‘js-assignments’ branch.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git commit -m "copy the file"

On branch js-assignments

Untracked files:

(use "git add <file>..." to include in what will be committed)

myfile1.js

nothing added to commit but untracked files present (use "git add" to track)

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git add .

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git commit -m "added js file"

[js-assignments 83a0862] added js file

1 file changed, 1 insertion(+)

create mode 100644 myfile1.js

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git commit

On branch js-assignments

nothing to commit, working tree clean

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

Ans. Made changes manually.

6.Commit those changed files.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git add .

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git commit -m "changed js file"

[js-assignments eedada3] changed js file

1 file changed, 1 insertion(+)

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git commit

On branch js-assignments

nothing to commit, working tree clean

7.Switch to master branch.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/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.

Ans. Done some changes into README.txt file .

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

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

Ans. Made some changes manually.

11.Commit those changes.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git add .

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git commit -m "changed the file"

[js-assignments 511fe1a] changed the file

1 file changed, 3 insertions(+), 1 deletion(-)

pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (js-assignments)

$ git commit

On branch js-assignments

nothing to commit, working tree clean

12.Switch to master.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/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.

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git merge js-assignments

Already up to date.

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

Ans. pragbors@LIN24009085 MINGW64 ~/Desktop/Section 1/Assignments (master)

$ git branch -d js-assignments

Deleted branch js-assignments (was 511fe1a).

*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.

Ans. Done.

40.Login on into github account.

Ans. Done

41.Create new public repository ‘freshersbatch-oct16’.

42.Commit & push any sample file to this repository under ‘Assignments’ directory.

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.