Name – Manisha Yadav Battula

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- USER@DESKTOP-PAUQ86H MINGW32 ~

$ mkdir project\_dir

USER@DESKTOP-PAUQ86H MINGW32 ~

$ cd project\_dir

1. Initialize git version database.(git init)

Ans- USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir

$ git init

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

1. Create a new file index.html.

Ans- C:/Users/hp/project\_dir/index.html – Index.html file is created

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ Touch index.html

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

Ans- USER@DESKTOP-PAUQ86H MINGW32 ~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)

1. Stage the index.html file.

Ans- USER@DESKTOP-PAUQ86H MINGW32 ~project\_dir (master)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/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

1. Commit index.html

Ans- USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git config --global user.email "lutika16kolhe@gmail.com"

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git commit -m "first commit"

[master (root-commit) 65e6325] first commit

1 file changed, 14 insertions(+)

create mode 100644 index.html

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

Ans- USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ touch info.txt

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

Ans - USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git status

On branch master

Untracked files:

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

README.md/

index.html

info.txt

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

1. Configure GIT to ignore all txt files.

Ans- USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ touch .gitignore

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

Ans -USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git status

On branch master

Changes to be committed:

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

modified: index.html

Untracked files:

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

.gitignore

README.md/

index1.html

info.txt

1. State & commit index.html

Ans- USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git add index.html info.txt

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git commit -m "restructure pages"

[master f80fb4b] restructure pages

2 files changed, 14 deletions(-)

create mode 100644 info.txt

1. Log all your comments so far.

Ans-

USER@DESKTOP-PAUQ86H MINGW32 ~/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>]

1. Make some changes in index.html.

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ Vi index.html

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git commit -m "change index.html"

[master 1c75df2] change index.html

1 file changed, 14 insertions(+)

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git commit

On branch master

Untracked files:

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

.gitignore

README.md/

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

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

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git diff head

-S, --gpg-sign[=<key-id>]

GPG sign commit

1. Again change index.html.

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ vi index.html

1. Stage index.html

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git add index.html

1. Revert back the last stage.

$ git log --oneline

1c75df2 (HEAD -> master) change index.html

f80fb4b restructure pages

65e6325 first commit

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir (master)

$ git reset 65e6325

Unstaged changes after reset:

M index.html

1. Rename ‘add’ command to ‘my-add’.

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir/project\_dir (lt)

$ git mv add my-add

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir/project\_dir (lt)

$ git status

On branch lt

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: index.html

Untracked files:

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

my-add

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

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir/project\_dir (lt)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir/project\_dir (lt)

$ git commit -m"change by adding"

[lt (root-commit) 050e450] change by adding

2 files changed, 0 insertions(+), 0 deletions(-)

create mode 100644 index.html

create mode 100644 my-add

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir/project\_dir (lt)

$ git commit

On branch lt

nothing to commit, working tree clean

1. Revert the last commit.

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir/project\_dir (lt)

$ git log --oneline

050e450 (HEAD -> lt) change by adding

USER@DESKTOP-PAUQ86H MINGW32 ~/project\_dir/project\_dir (lt)

$ git reset 050e450

*GIT Branching*

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

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

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

Answer**-** cp -r myrepo backup\_copy

1. Create an empty directory ‘Assignments’ & cd to ‘Assignments’

Ans-

USER@DESKTOP-PAUQ86H MINGW32 ~

$ mkdir Assignments

USER@DESKTOP-PAUQ86H MINGW32 ~

$ cd Assignments

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments

$ git init

Initialized empty Git repository in C:/Users/hp/Assignments/.git/

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ touch README.txt

1. Commit README.txt file.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git add README.txt

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git commit -m "add readme file"

[master (root-commit) 79f960e] add readme file

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

create mode 100644 README.txt

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git commit

On branch master

nothing to commit, working tree clean

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git branch html-assignments

1. Switch to ‘html-assignments’ branch.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

1. Copy all HTML assignments inside ‘Assignments’ folder.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git commit -m "copy the file"

On branch html-assignments

Untracked files:

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

everyday.html

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

1. Commit HTML assignments into ‘html-assignments’ branch.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (html-assignments)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git commit -m "change html files"

[html-assignments cd4f5be] change html files

1 file changed, 460 insertions(+)

create mode 100644 everyday.html

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git commit

On branch html-assignments

nothing to commit, working tree clean

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

Ans- I had made some changes manually.

1. Commit those changed files.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git commit -m "i changes"

On branch html-assignments

nothing to commit, working tree clean

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git commit

On branch html-assignments

nothing to commit, working tree clean

1. Switch to master branch.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git checkout master

Switched to branch 'master'

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git commit -m "change in readme"

On branch master

nothing to commit, working tree clean

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git commit

On branch master

nothing to commit, working tree clean

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

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

Ans- I had made some changes manually.

1. Commit those changes.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git commit -m "i changes"

On branch html-assignments

nothing to commit, working tree clean

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git commit

On branch html-assignments

nothing to commit, working tree clean

1. Switch to master.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (html-assignments)

$ git checkout master

Switched to branch 'master'

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git merge html-assignments

Updating 79f960e..cd4f5be

Fast-forward

everyday.html | 460 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

1 file changed, 460 insertions(+)

create mode 100644 everyday.html

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git branch -d html-assignments

Deleted branch html-assignments (was cd4f5be).

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

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git branch css-assignments

1. Switch to ‘css-assignments’ branch.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

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

USER@DESKTOP-PAUQ86H MINGW32 ~/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)

docbook-xsl.css

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

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git commit -m "change css files"

[css-assignments 85f4f5c] change css files

1 file changed, 296 insertions(+)

create mode 100644 docbook-xsl.css

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git commit

On branch css-assignments

nothing to commit, working tree clean

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

Ans- I had made some changes manually.

1. Commit those changed files.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git commit -m "change readme files"

On branch css-assignments

nothing to commit, working tree clean

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git commit

On branch css-assignments

nothing to commit, working tree clean

1. Switch to master branch.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git checkout master

Switched to branch 'master'

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

Ans- I had made some changes manually.

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

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

Ans- I had made some changes manually.

1. Commit those changes.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git commit -m "change in readme"

On branch css-assignments

nothing to commit, working tree clean

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git commit

On branch css-assignments

1. Switch to master.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (css-assignments)

$ git checkout master

Switched to branch 'master'

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git merge css-assignments

Updating cd4f5be..85f4f5c

Fast-forward

docbook-xsl.css | 296 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++

1 file changed, 296 insertions(+)

create mode 100644 docbook-xsl.css

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git branch -d css-assignments

Deleted branch css-assignments (was 85f4f5c).

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

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git branch js-assignments

1. Switch to ‘js-assignments’ branch.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

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

USER@DESKTOP-PAUQ86H MINGW32 ~/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)

abcd.js

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

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git commit -m "change js files"

[js-assignments f8b4805] change js files

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

create mode 100644 abcd.js

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git commit

On branch js-assignments

nothing to commit, working tree clean

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

Ans- I had made some changes manually.

1. Commit those changed files.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git commit -m "change js files"

On branch js-assignments

nothing to commit, working tree clean

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git commit

On branch js-assignments

nothing to commit, working tree clean

1. Switch to master branch.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git checkout master

Switched to branch 'master'

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

Ans- I had made some changes manually.

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

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

Ans- In js-assignment branch I had made some changes in the manually.

1. Commit those changes.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git add .

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git commit -m "change js files"

On branch js-assignments

nothing to commit, working tree clean

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git commit

On branch js-assignments

nothing to commit, working tree clean

1. Switch to master.

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (js-assignments)

$ git checkout master

Switched to branch 'master'

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git merge js-assignments

Updating 85f4f5c..f8b4805

Fast-forward

abcd.js | 0

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

create mode 100644 abcd.js

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

USER@DESKTOP-PAUQ86H MINGW32 ~/Assignments (master)

$ git branch -d js-assignments

Deleted branch js-assignments (was f8b4805).

*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.

Create github account with uername and email id and password

1. Login on into github account.

Login to account with uesrname and password

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

Goto profile there you can find your repoitory then create repoitory a “Freshsbatch-oct-16”

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

|  |
| --- |
|  |
|  | Create “Freshbatch-0ct16  Create directory mkdir Assignments. then git init the url copy and pat git |
|  | Git remote add origin “url” |
|  | Git puh remote -v |
|  | Git push -u origin master |
|  | sigin in into git hub |
|  | Give authencation |
|  | Then you can push |

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.

Answer :1.Open Eclipse IDE then shit to git repository

2.select add on existing local repository

3.Browse the repository folder and add to it.

4.select to clone a repository and enter url and finish.

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |

1. Collaborate other team members with your github account so that they can also modify the committed files.

She collaborated with us by adding Github accounts in the project. I was able to make changes in the files>>Adding and Deleting lines>committing them.

|  |
| --- |
|  |
|  |
|  |

1. 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.
2. Commit & push the ‘SampleProj’ project.

Answer: 1 . Right click on project

2.select commit

3.We can git staging view then select commit.

4.Then right click on the projrct and select team.

5.In that team memu select push branch master.

|  |
| --- |
|  |