Name – Lutika Kolhe

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- hp@DESKTOP-JAB1NLP MINGW64 ~

$ mkdir project\_dir

hp@DESKTOP-JAB1NLP MINGW64 ~

$ cd project\_dir

1. Initialize git version database.(git init)

Ans- hp@DESKTOP-JAB1NLP MINGW64 ~/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

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ Touch index.html

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

Ans- hp@DESKTOP-JAB1NLP 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)

1. Stage the index.html file.

Ans- hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ git add .

hp@DESKTOP-JAB1NLP MINGW64 ~/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- hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

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

hp@DESKTOP-JAB1NLP MINGW64 ~/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- hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ touch info.txt

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

Ans - hp@DESKTOP-JAB1NLP MINGW64 ~/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- hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ touch .gitignore

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

Ans - hp@DESKTOP-JAB1NLP MINGW64 ~/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- hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ git add index.html info.txt

hp@DESKTOP-JAB1NLP MINGW64 ~/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-

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ Vi index.html

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ git commit -m "change index.html"

[master 1c75df2] change index.html

1 file changed, 14 insertions(+)

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ git diff head

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

GPG sign commit

1. Again change index.html.

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ vi index.html

1. Stage index.html

hp@DESKTOP-JAB1NLP MINGW64 ~/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

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir (master)

$ git reset 65e6325

Unstaged changes after reset:

M index.html

1. Rename ‘add’ command to ‘my-add’.

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir/project\_dir (lt)

$ git mv add my-add

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir/project\_dir (lt)

$ git add .

hp@DESKTOP-JAB1NLP MINGW64 ~/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

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir/project\_dir (lt)

$ git commit

On branch lt

nothing to commit, working tree clean

1. Revert the last commit.

hp@DESKTOP-JAB1NLP MINGW64 ~/project\_dir/project\_dir (lt)

$ git log --oneline

050e450 (HEAD -> lt) change by adding

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

Ans- DONE

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

Ans-

hp@DESKTOP-JAB1NLP MINGW64 ~

$ mkdir Assignments

hp@DESKTOP-JAB1NLP MINGW64 ~

$ cd Assignments

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ touch README.txt

1. Commit README.txt file.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git add README.txt

hp@DESKTOP-JAB1NLP MINGW64 ~/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

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git commit

On branch master

nothing to commit, working tree clean

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

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git branch html-assignments

1. Switch to ‘html-assignments’ branch.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

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

hp@DESKTOP-JAB1NLP MINGW64 ~/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 .

hp@DESKTOP-JAB1NLP MINGW64 ~/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

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git commit -m "i changes"

On branch html-assignments

nothing to commit, working tree clean

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

$ git commit

On branch html-assignments

nothing to commit, working tree clean

1. Switch to master branch.

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

$ git checkout master

Switched to branch 'master'

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

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git add .

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git commit -m "change in readme"

On branch master

nothing to commit, working tree clean

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git commit

On branch master

nothing to commit, working tree clean

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

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git commit -m "i changes"

On branch html-assignments

nothing to commit, working tree clean

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

$ git commit

On branch html-assignments

nothing to commit, working tree clean

1. Switch to master.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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’.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git branch css-assignments

1. Switch to ‘css-assignments’ branch.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

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

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git add .

hp@DESKTOP-JAB1NLP MINGW64 ~/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

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git add .

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

$ git commit -m "change readme files"

On branch css-assignments

nothing to commit, working tree clean

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

$ git commit

On branch css-assignments

nothing to commit, working tree clean

1. Switch to master branch.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git add .

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

$ git commit -m "change in readme"

On branch css-assignments

nothing to commit, working tree clean

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

$ git commit

On branch css-assignments

1. Switch to master.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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’.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git branch js-assignments

1. Switch to ‘js-assignments’ branch.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

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

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git add .

hp@DESKTOP-JAB1NLP MINGW64 ~/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

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git add .

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

$ git commit -m "change js files"

On branch js-assignments

nothing to commit, working tree clean

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

$ git commit

On branch js-assignments

nothing to commit, working tree clean

1. Switch to master branch.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

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

$ git add .

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

$ git commit -m "change js files"

On branch js-assignments

nothing to commit, working tree clean

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

$ git commit

On branch js-assignments

nothing to commit, working tree clean

1. Switch to master.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

hp@DESKTOP-JAB1NLP MINGW64 ~/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.

-done

1. Login on into github account.

-done

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

-done

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

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (main)

$ git push -u origin main --force

Everything up-to-date

Branch 'main' set up to track remote branch 'main' from 'origin'.

hp@DESKTOP-JAB1NLP MINGW64 ~/Assignments (main)

$ git commit

Aborting commit due to empty commit message.

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.

-done

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

-done

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.

-done

1. Commit & push the ‘SampleProj’ project.

-done