**GIT Assignment**

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

Q1. Create a directory ‘project\_dir’ & cd to ‘project\_dir’.

rohitk@LIN80034320 MINGW64 ~ (master)

~

$ mkdir project\_dir

rohitk@LIN80034320 MINGW64

$ cd project\_dir

Q2. Initialize git version database. (git init)

rohitk@LIN80034320 MINGW64 ~/project\_dir

$ git init

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

Q3. Create a new file index.html.

Created index.html in the following directory (C:/Users/ROHITK/project\_dir/.git//)

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ Touch index.html

Q4. Check the git status. You should find index.html as untracked file.

rohitk@LIN80034320 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)

Q5. Stage the index.html file.

rohitk@LIN80034320 MINGW64 ~/~/project\_dir (master)

$ git add index.html

Q6. Commit index.html

rohitk@LIN80034320 MINGW64 ~/~/project\_dir (master)

$ git commit -m "Committing the File"

[master (root-commit) b6e4aca] Committing the File

Committer: Rohit<Rohit.k@capgemini.com>

Your name and email address were configured automatically based

on your username and hostname. Please check that they are accurate.

You can suppress this message by setting them explicitly. Run the

following command and follow the instructions in your editor to edit

your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

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

create mode 100644 index.html

Q7. Make few changes in index.html & create a new file info.txt file.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ Touch info.txt

Q8. Check git status. You should find index.html & info.txt as untracked files.

rohitk@LIN80034320 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")

Q9. Configure GIT to ignore all txt files.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ touch .gitignore

Change the .gitignore file with “\*.txt”, so that it ignore all txt files.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git add .gitignore

Q10. Again check the git status. You should find only index.html as untracked file.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git status

On branch master

Changes to be committed:

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

new file: .gitignore

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

Q11. State & commit index.html

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git add index.html

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git commit -m "Committing the File"

[master c43d2b0] Committing the File

2 files changed, 3 insertions(+)

create mode 100644 .gitignore

Q12. Log all your comments so far.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git log -p

commit c43d2b027ed7c5b3889b7b1b0666e642465cf0a9 (HEAD -> master)

Author: Rohit <Rohit.k@capgemini.com>

Date: Thu Jan 6 13:39:02 2022 +0530

Committing

diff --git a/.gitignore b/.gitignore

new file mode 100644

index 0000000..2211df6

--- /dev/null

+++ b/.gitignore

@@ -0,0 +1 @@

+\*.txt

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

index e69de29..8c7fe21 100644

--- a/index.html

+++ b/index.html

@@ -0,0 +1,2 @@

+<html>

+</html>

\ No newline at end of file

commit b6e4acae9c976d93bb59b20afba4ddec74ad9b14

:

To just view the commits “git log” is the commandline.

Q13. Make some changes in index.html.

Made some changes to index.html

Q14. Revert the change made in the previous step using git command.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git diff head

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

GPG sign commit

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git checkout -f

Q15. Again change index.html.

I did some changes to index.html

rohitk@LIN80034320 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")

Q16. Stage index.html

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git add index.html

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git commit -m "Added h2"

[master d3bf6d7] Added h2

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

Q17. Revert back the last stage.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git log --oneline

d3bf6d7 (HEAD -> master) Added h2

821b9f1 Added h1 tag

554a8b6 Commiting to File

c43d2b0 Committing to File

b6e4aca Committing To File

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git reset d3bf6d7

[master 8271e04] Reset "Added h2"

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

Unstaged changes after reset:

M index.html

Q18. Rename ‘add’ command to ‘my-add’.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

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

Q19. Using my\_add command Stage index.html again & commit the changes.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git my-add index.html

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git commit -m "Adding head tag"

[master c6c5563] Adding head tag

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

Q20. Revert the last commit.

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git revert c6c5563

[master 6be8e3f] Revert "Adding head tag"

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

rohitk@LIN80034320 MINGW64 ~/project\_dir (master)

$ git log --oneline

6be8e3f (HEAD -> master) Revert "Adding head tag"

c6c5563 Adding head tag

8271e04 Revert "Added h2"

d3bf6d7 Added h2

712a14d Revert "Added h1 tag"

821b9f1 Added h1 tag

554a8b6 Commiting

c43d2b0 Committing

b6e4aca Commiting

**GIT Branching**

**SECTION-1 -HTML assignment:**

Q22. Create an empty directory ‘Assignments’ & cd to ‘Assignments’.

rohitk@LIN80034320 MINGW64 ~

$ mkdir assignments

rohitk@LIN80034320 MINGW64 ~

$ cd assignments

rohitk@LIN80034320 MINGW64 ~/assignments

Q23. Create a file README.txt inside ‘Assignments’ & write few lines about the contents of ‘Assignments’ folder.

Created and added a short description in the file (“README.txt”)

Q24. Commit README.txt file.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git add README.txt

rohitk@LIN80034320 MINGW64 ~/assignments (master)

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

[master (root-commit) 93f199b] Added README.txt file

1 file changed, 1 insertion(+)

create mode 100644 README.txt

Q25. Now create a new branch ‘html-assignments’.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch html-assignment

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

html-assignment

\* master

Q26. Switch to ‘html-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git checkout html-assignment

Switched to branch 'html-assignment'

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git branch

\* html-assignment

Master

Q28. Commit HTML assignments into ‘html-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git add .

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git commit -m "HTML files committed"

[html-assignment 3befe37] HTML files committed

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

create mode 100644 html1.html

create mode 100644 html2.html

Q30. Commit those changed files.

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git status

On branch html-assignment

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: html1.html

no changes added to commit (use "git add" and/or "git commit -a")

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git add html1.html

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git commit -m "Updated html1"

[html-assignment 49efafd] Updated html1

1 file changed, 1 insertion(+)

Q31. Switch to master branch.

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git checkout master

Switched to branch 'master'

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

html-assignment

\* master

Q32. Make minor changes into README.txt file & commit those changes into master.

Minor changes made to the README.txt

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git add README.txt

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git commit -m "README.txt Updated"

[master d192930] README.txt Updated

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

Q33. Again switch to ‘html-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git checkout html-assignment

Switched to branch 'html-assignment'

rohitk@LIN80034320 MINGW64 (html-assignment)

$ git branch

\* html-assignment

Master

Q35. Commit those changes.

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git status

On branch html-assignment

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: html2.html

no changes added

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git add html2.html

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git commit -m "Changed html2"

[html-assignment 178eaa5] Changed html2

1 file changed, 1 insertion(+)

Q36. Switch to master.

rohitk@LIN80034320 MINGW64 ~/assignments (html-assignment)

$ git checkout master

Switched to branch 'master'

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

html-assignment

\* master

Q37. Merge ‘html-assignments’ branch into master. Confirm all html assignments are shown in master.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git merge html-assignment

Changes to be committed:

new file: html1.html

new file: html2.html

rohitk@LIN80034320 MINGW64 ~/assignments (master|MERGING)

$ git commit -m "All Changes Committed"

[master dd72d74] All Changes Committed

Q38. Finally delete the ‘html-assignments’ branch.

rohitk@LIN80034320 MINGW64 ((178eaa5...))

$ git branch -d html-assignment

Deleted branch html-assignment (was 178eaa5).

rohitk@LIN80034320 MINGW64 ((178eaa5...))

$ git branch

\* (HEAD detached at 178eaa5)

master

**SECTION 2 - CSS assignments:**

Q39. Create a new branch ‘css-assignments’.

rohitk@LIN80034320 MINGW64 ~/assignments ((189hua5...))

$ git branch css-assignment

rohitk@LIN80034320 MINGW64 ~/assignments ((186haua5...))

$ git branch

\* (HEAD detached at 178eaa5)

css-assignment

master

Q40. Switch to ‘css-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments ((178eaa5...))

$ git checkout css-assignment

Switched to branch 'css-assignment'

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git branch

\* css-assignment

Master

Q41. Copy all CSS assignments inside ‘Assignments’ folder.

Copied few css code files in assignment folder for css-assignment branch.

Q42. Commit CSS assignments into ‘css-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git status

On branch css-assignment

Untracked files:

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

css1.css

css2.css

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

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git add .

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git commit -m "Commit All"

[css-assignment 7704c5e] Commit All

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

create mode 100644 css1.css

create mode 100644 css2.css

Q43. Make minor changes into README.txt file on line 1 belonging to ‘css-assignments’ branch.

Made some minor changes to the file README.txt belonging to css-assignments branch. (Conflicts have to arise while merging as we are writing in the same file)

Q.44 Commit those changed files.

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git status

On branch css-assignment

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: README.txt

no changes added to commit (use "git add" and/or "git commit -a")

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git add README.txt

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git commit -m "README.txt Updated"

[css-assignment 78c1a70] README.txt Updated

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

Q45. Switch to master branch.

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git checkout master

Switched to branch 'master'

Q46. Make minor changes into README.txt file on line 3 & commit those changes into master.

rohitk@LIN80034320 MINGW64 ~/assignments (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: README.txt

no changes added to commit (use "git add" and/or "git commit -a")

subsatpa@LIN24009587 MINGW64 ~/assignments (master)

$ git add README.txt

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git commit -m "Updated README.txt"

[master 52465b3] Updated README.txt

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

Q47. Again switch to ‘css-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git checkout css-assignment

Switched to branch 'css-assignment'

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git branch

\* css-assignment

Master

Q49. Commit those changes.

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git status

On branch css-assignment

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: css1.css

no changes added to commit (use "git add" and/or "git commit -a")

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git add css1.css

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git commit -m "Updated CSS File"

[css-assignment 4b39324] Updated CSS File

1 file changed, 1 insertion(+)

Q50. Switch to master.

rohitk@LIN80034320 MINGW64 ~/assignments (css-assignment)

$ git checkout master

Switched to branch 'master'

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

css-assignment

\* master

Q51. Merge ‘css-assignments’ branch into master. Confirm all css assignments are shown in master.

subsatpa@LIN24009587 MINGW64 ~/assignments (master)

$ git merge css-assignment

Changes to be committed:

new file: css1.css

new file: css2.css

rohitk@LIN80034320 MINGW64 ~/assignments (master|MERGING)

$ git commit -m "All Changes Committed"

[master dd72d74] All Changes Committed

Q52. Finally delete the ‘css-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch -D css-assignment

Deleted branch css-assignment (was 4b39324).

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

\* master

**SECTION-3 - JavaScript assignments:**

Q53. Create a new branch ‘js assignments’.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch js assignments

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

js-assignments

\* master

Q54. Switch to ‘js-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git branch

\* js-assignments

Master

Q56. Commit JavaScript assignments into ‘js assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git status

On branch js-assignments

Untracked files:

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

js1.js

js2.js

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

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git add js1.js

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git add js2.js

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git commit -m "Added All"

[js assignments bfb19c7] Added All

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

create mode 100644 js1.js

create mode 100644 js2.js

Q57. Make minor changes into README.txt file on line 1 belonging to ‘js-assignments’ branch.

Made some minor changes to the file README.txt belonging to css-assignments branch (Conflicts have to arise while merging as we are writing in the same file)

Q58. Commit those changed files.

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git status

On branch js-assignments

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: README.txt

no changes added to commit (use "git add" and/or "git commit -a")

rohitk@LIN80034320 MINGW64 ~/assignments (js-assignments)

$ git add README.txt

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git commit -m "README.txt Updated"

[js-assignments 78c1a70] README.txt Updated

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

Q59. Switch to master branch.

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git checkout master

Switched to branch 'master'

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

js-assignments

\* master

Q60. Make minor changes into README.txt file on line 1 & commit those changes into master.

rohitk@LIN80034320 MINGW64 ~/assignments (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: README.txt

no changes added to commit (use "git add" and/or "git commit -a")

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git add README.txt

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git commit -m "Added All"

[master a2e63e4] Added All

1 file changed, 1 insertion(+), 5 deletions(-)

Q61. Again switch to ‘js-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git branch

\* js-assignments

master

Q63. Commit those changes.

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git status

On branch js assignments

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: js1.js

no changes added to commit (use "git add" and/or "git commit -a")

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git add js1.js

rohitk@LIN80034320 MINGW64 ~/assignments (js assignments)

$ git commit -m "Updated JS File"

[js-assignments bc3fc3f] Updated JS File

1 file changed, 1 insertion(+)

Q64. Switch to master.

rohitk@LIN80034320 MINGW64 ~/assignments (js-assignments)

$ git checkout master

Switched to branch 'master'

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

js-assignments

\* master

Q65. Merge ‘js-assignments’ branch into master. Confirm all JavaScript assignments are shown in master.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git merge js assignments

On branch master

All conflicts fixed but you are still merging.

(use "git commit" to conclude merge)

Changes to be committed:

new file: js1.js

new file: js2.js

rohitk@LIN80034320 MINGW64 ~/assignments (master|MERGING)

$ git commit -m "All Changes Committed"

[master dd72d74] All Changes Committed

Q66. Finally delete the ‘js-assignments’ branch.

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch -D js-assignments

Deleted branch js-assignments (was bc3fc3f).

rohitk@LIN80034320 MINGW64 ~/assignments (master)

$ git branch

\* master

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