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

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

*2.Initialize git version database. (git init)*

bvsk@LAPTOP-HD8E10C8 MINGW64 ~

$ mkdir project\_dir

bvsk@LAPTOP-HD8E10C8 MINGW64 ~

$ cd project\_dir

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir

$ git init

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

*3.Create a new file index.html.*

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

*5.Stage the index.html file.*

*6.Commit index.html*

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ touch index1.html

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git status

On branch master

Untracked files:

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

Index1.html

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

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git add index1.html

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git commit -m "index1.html commited as step-6"

[master 1042427] index1.html commited as step-6

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

create mode 100644 index1.html

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

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

*9.Configure GIT to ignore all txt files.*

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

*11.State & commit index.html*

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ touch info.txt

bvsk@LAPTOP-HD8E10C8 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: index1.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")

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ touch .gitignore

bvsk@LAPTOP-HD8E10C8 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: index1.html

Untracked files:

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

.gitignore

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

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git add index1.html

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git commit -m "index1.html commited as step-11"

[master 6bdbc8f] index1.html commited as step-11

1 file changed, 1 insertion(+)

*12.Log all your comments so far.*

*13.Make some changes in index.html.*

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

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git log

commit 6bdbc8fbf02b0aff163e3f933953a63458cfe6c8 (HEAD -> master)

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 18:40:26 2021 +0530

index1.html commited as step-11

commit fd5e327b5371802e2906aa8922bdd4ba7548082f

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 18:18:20 2021 +0530

index1.html commited as step-6

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git checkout --

M index1.html

*15.Again change index.html.*

*16.Stage index.html*

*17.Revert back the last stage.*

*18.Rename ‘add’ command to ‘my-add’.*

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git add index1.html

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git reset HEAD index1.html

Unstaged changes after reset:

M index1.html

bvsk@LAPTOP-HD8E10C8 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: index1.html

Untracked files:

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

.gitignore

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

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

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

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

*20.Revert the last commit.*

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git my-add index1.html

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git commit -m "index1.html commited as step-19"

[master 13da358] index1.html commited as step-19

1 file changed, 14 insertions(+), 1 deletion(-)

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git log

commit 13da358134d98ca8057e8147412f1389666628b2 (HEAD -> master)

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 19:38:51 2021 +0530

index1.html commited as step-19

commit 6bdbc8fbf02b0aff163e3f933953a63458cfe6c8

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 18:40:26 2021 +0530

index1.html commited as step-11

commit fd5e327b5371802e2906aa8922bdd4ba7548082f

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 18:18:20 2021 +0530

index1.html commited as step-6

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git reset --soft HEAD

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/project\_dir (master)

$ git log

commit 13da358134d98ca8057e8147412f1389666628b2 (HEAD -> master)

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 19:38:51 2021 +0530

index1.html commited as step-19

commit 6bdbc8fbf02b0aff163e3f933953a63458cfe6c8

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 18:40:26 2021 +0530

index1.html commited as step-11

commit fd5e327b5371802e2906aa8922bdd4ba7548082f

Author: Kedareswari <vaishnavionthemove@gmail.com>

Date: Thu Oct 21 18:18:20 2021 +0530

index1.html commited as step-6

**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.
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.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~

$ mkdir assignments

bvsk@LAPTOP-HD8E10C8 MINGW64 ~

$ cd assignments

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments

$ git init

Initialized empty Git repository in C:/Users/bvsk/assignments/.git/

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git add README.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git status

On branch master

No commits yet

Changes to be committed:

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

new file: README.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git commit -m "README.txt commited as step-4"

[master (root-commit) 7c1506d] README.txt commited as step-4

1 file changed, 13 insertions(+)

create mode 100644 README.txt

1. Now create a new branch ‘html-assignments’.
2. Switch to ‘html-assignments’ branch.
3. Copy all HTML assignments inside ‘Assignments’ folder.
4. Commit HTML assignments into ‘html-assignments’ branch.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git branch html-assignments

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (html-assignments)

$ git add README.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (html-assignments)

$ git commit -m "README.txt commited in html-assignments"

[html-assignments 035f679] README.txt commited in html-assignments

1 file changed, 3 insertions(+), 13 deletions(-)

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

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (html-assignments)

$ git commit -m "README.txt commited as step-10"

On branch html-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")

1. Switch to master branch.
2. Make minor changes into README.txt file & commit those changes into master.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (html-assignments)

$ git checkout master

Switched to branch 'master'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git commit -m "README.txt commited as step-12"

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")

1. Again switch to ‘html-assignments’ branch.
2. Make minor changes into few files belonging to ‘html-assignments’ branch.
3. Commit those changes.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git checkout html-assignments

Switched to branch 'html-assignments'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (html-assignments)

$ git commit -m "README.txt commited as step-15"

[html-assignments f21405d] README.txt commited as step-15

1 file changed, 1 insertion(+)

1. Switch to master.
2. Merge ‘html-assignments’ branch into master. Confirm all html assignments are shown in master.
3. Finally delete the ‘html-assignments’ branch.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (html-assignments)

$ git checkout master

Switched to branch 'master'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git merge html-assignments

Already up to date.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ cat README.txt

<<<<<<< HEAD

hello

1d

lm

=======

hiii

5sos

bts

ts

>>>>>>> html-assignments

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git branch -d html-assignments

Deleted branch html-assignments (was f21405d).

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git status

On branch master

nothing to commit, working tree clean

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

1. Create a new branch ‘css-assignments’.
2. Switch to ‘css-assignments’ branch.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git branch css-assignments

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

1. Copy all CSS assignments inside ‘Assignments’ folder.
2. Commit CSS assignments into ‘css-assignments’ branch.
3. Make minor changes into README.txt file on line 1 belonging to ‘css-assignments’ branch.
4. Commit those changed files.
5. Switch to master branch.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (css-assignments)

$ git add README.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (css-assignments)

$ git commit -m "README.txt commited as step-4"

[css-assignments a2de97f] README.txt commited as step-4

1 file changed, 1 insertion(+)

bvsk@LAPTOP-HD8E10C8 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.
2. Again switch to ‘css-assignments’ branch.
3. Make minor changes into few files belonging to ‘css-assignments’ branch.
4. Commit those changes.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git add README.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git commit -m "README.txt commited as step-8"

[master 524e2d4] README.txt commited as step-8

1 file changed, 2 insertions(+)

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git checkout css-assignments

Switched to branch 'css-assignments'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (css-assignments)

$ vi README.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (css-assignments)

$ git add README.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (css-assignments)

$ git commit -m "README.txt commited as step-11"

[css-assignments d2709b5] README.txt commited as step-11

1 file changed, 1 insertion(+)

1. Switch to master.
2. Merge ‘css-assignments’ branch into master. Confirm all css assignments are shown in master.
3. Finally delete the ‘css-assignments’ branch.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (css-assignments)

$ git checkout master

Switched to branch 'master'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ cat README.txt

helloo!!

<<<<<<< HEAD

whatsup

=======

lrh

hs

>>>>>>> css-assignments

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

1. Create a new branch ‘js-assignments’.
2. Switch to ‘js-assignments’ branch.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git branch js-assignments

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

1. Copy all JavaScript assignments inside ‘Assignments’ folder.
2. Commit JavaScript assignments into ‘js-assignments’ branch.
3. Make minor changes into README.txt file on line 1 belonging to ‘js-assignments’ branch.
4. Commit those changed files.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (js-assignments)

$ git add README1.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (js-assignments)

$ git commit -m "README1.txt commited as step-6"

[js-assignments 9077c45] README1.txt commited as step-6

1 file changed, 1 insertion(+)

create mode 100644 README1.txt

1. Switch to master branch.
2. Make minor changes into README.txt file on line 1 & commit those changes into master.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (js-assignments)

$ git checkout master

Switched to branch 'master'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git add README1.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git commit -m "README1.txt commited as step-8"

[master 52e2dd3] README1.txt commited as step-8

1 file changed, 1 insertion(+)

create mode 100644 README1.txt

1. Again switch to ‘js-assignments’ branch.
2. Make minor changes into few files belonging to ‘js-assignments’ branch.
3. Commit those changes.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git checkout js-assignments

Switched to branch 'js-assignments'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (js-assignments)

$ git add README1.txt

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (js-assignments)

$ git commit -m "README1.txt commited as step-11"

[js-assignments e6ec7d5] README1.txt commited as step-11

1 file changed, 2 insertions(+)

1. Switch to master.
2. Merge ‘js-assignments’ branch into master. Confirm all JavaScript assignments are shown in master.
3. Finally delete the ‘js-assignments’ branch.

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (js-assignments)

$ git checkout master

Switched to branch 'master'

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ cat README1.txt

<<<<<<< HEAD

hola!

=======

hii!! hello

1d

bts

>>>>>>> js-assignments

bvsk@LAPTOP-HD8E10C8 MINGW64 ~/assignments (master)

$ git branch -d js-assignments

Deleted branch js-assignments (was e6ec7d5).