

Git and Github Assignment – A1

Section A1 - Use GIT as local VCS. Steps to follow:

1. Create a directory 'project dir' & cd to 'project dir'.

Ans:- `mkdir project_dir & cd project_dir`

2. Initialize git version database. (git init)

Ans:- `git init`

Initialized empty Git repository in C:/Users/ASUS/project_dir/.git/

3. Create a new file index.html.

Ans:- `touch index.html`

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

Ans:- `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)

5. Stage the index.html file.

Ans:- `git add index.html`

6. Commit index.html

Ans:- `git commit -m "This is my first html file"`

[master (root-commit) 8e6fd6f] This is my first html file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html

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

Ans:- `git commit -m "This is my first html file"`

[master (root-commit) 8e6fd6f] This is my first html file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html

&

`touch index.html`

8. Check git status. You should find index.html

Ans:- 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

9. Configure GIT to ignore all txt files. & info.txt as untracked files.

Ans:- git add index.html

git config --global user.name "Bhushan Bire"

git config --global user.email b55bhushan@gmail.com

&

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)

info.txt

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

Ans:- git status

On branch master

Changes to be committed:

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

deleted: index.html

Untracked files:

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

index.html

info.txt

11. State & commit index.html

Ans:- git status

On branch master

Changes to be committed:

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

modified: index.html

new file: info.txt

12. Log all your comments so far.

Ans:- git log

commit 8e6fd6ff78ecfdabcbda2a981e4e448214e278e7 (HEAD -> master)

Author: Bhushan Bire <b55bhushan@gmail.com>

Date: Sat May 15 13:28:02 2021 +0530

This is my first html file

13. Make some changes in index.html.

Ans:- git commit -m "first change in html file"

```
[master 264be02] first change in html file
3 files changed, 2 insertions(+)
create mode 100644 index.html
create mode 100644 info.txt
```

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

Ans:- git revert HEAD

```
[master ebc8406] Revert "first change in html file"
1 file changed, 1 insertion(+), 1 deletion(-)
```

15. Again change index.html.

Ans:- 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")

16. Stage index.html

Ans:- git add index.html

17. Revert back the last stage.

Ans:- git revert HEAD

```
[master ebdf371] Revert "second change in html file"
1 file changed, 1 insertion(+), 1 deletion(-)
```

18. Rename 'add' command to 'my-add'.

Ans:- git config --global alias.my-add add

19. Using my_add command Stage index.html again & commit the changes.

Ans:- git my-add index.html

&

git commit index.html

On branch master

nothing to commit, working tree clean

20. Revert the last commit.

Ans:- git revert HEAD

```
[master eac4386] Revert "Revert "second change in html file""
1 file changed, 1 insertion(+), 1 deletion(-)
```

Screenshots:-

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git commit
[master 264be02] first change in html file
3 files changed, 2 insertions(+)
create mode 100644 .gitignore
create mode 100644 info.txt

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git revert HEAD
error: Your local changes to the following files would be overwritten by merge:
    index.html
Please commit your changes or stash them before you merge.
Aborting
fatal: revert failed

ASUS@DESKTOP-9L2C0J0 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")

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git add index.html

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git revert HEAD
error: your local changes would be overwritten by revert.
hint: commit your changes or stash them to proceed.
fatal: revert failed

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git commit -m "first change in html file"
[master 76e6672] first change in html file
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git revert HEAD
[master ebc8406] Revert "first change in html file"
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git add index.html

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git commit -m "second change in html file"
[master 960c182] second change in html file
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html
        info.txt
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git add .
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html
        new file:   info.txt
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ touch .gitignore
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ touch log.txt
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git add.
git: 'add.' is not a git command. See 'git --help'.
```

```
The most similar command is
    add
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git add .
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   .gitignore
        modified:   index.html
        new file:   info.txt
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git log
commit 8e6fd6ff78ecfdabcbda2a981e4e448214e278e7 (HEAD -> master)
Author: Bhushan Bire <b55bhushan@gmail.com>
Date:   Sat May 15 13:28:02 2021 +0530
```

```
    This is my first html file
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ ^C
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ ^C
```



```
$ touch info.txt
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git status
```

```
On branch master
```

```
Untracked files:
```

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

```
info.txt
```

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

```
ASUS@DESKTOP-9L2C0J0 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")
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git add index.html
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git config --global user.name "Bhushan Bire"
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git config --global user.email "b55bhushan@gmail.com"
```

```
ASUS@DESKTOP-9L2C0J0 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)
```

```
info.txt
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git rm --cached index.html
```

```
rm 'index.html'
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git status
```

```
On branch master
```

```
Changes to be committed:
```

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

```
deleted: index.html
```

```
Untracked files:
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~
```

```
$ mkdir project_dir
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~
```

```
$ cd mkdir project_dir
```

```
bash: cd: too many arguments
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~
```

```
$ cd project_dir
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir
```

```
$ git init
```

```
Initialized empty Git repository in C:/Users/ASUS/project_dir/.git/
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ index.html
```

```
bash: index.html: command not found
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ touch index.html
```

```
ASUS@DESKTOP-9L2C0J0 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)
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git add index.html
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ commit index.html
```

```
bash: commit: command not found
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ commit -m "This is my first html file"
```

```
bash: commit: command not found
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git commit -m "This is my first html file"
```

```
[master (root-commit) 8e6fd6f] This is my first html file
```

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

```
create mode 100644 index.html
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ touch info.txt
```

```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```

```
$ git status
```

```
On branch master
```

```
Untracked files:
```



```
ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git add index.html

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git revert HEAD
error: your local changes would be overwritten by revert.
hint: commit your changes or stash them to proceed.
fatal: revert failed

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git commit -m "first change in html file"
[master 76e6672] first change in html file
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git revert HEAD
[master ebc8406] Revert "first change in html file"
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git add index.html

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git commit -m "second change in html file"
[master 960c182] second change in html file
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git revert HEAD
[master ebdf371] Revert "second change in html file"
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git my-add index.html

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git commit index.html
On branch master
nothing to commit, working tree clean

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git commit -m "file have used comment my-add"
On branch master
nothing to commit, working tree clean

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
$ git revert HEAD
[master eac4386] Revert "Revert "second change in html file""
1 file changed, 1 insertion(+), 1 deletion(-)

ASUS@DESKTOP-9L2C0J0 MINGW64 ~/project_dir (master)
```