TCSS 502 Assignment: Git and GitHub

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Contents:

A. Create local repository (SC)

```
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502
$ mkdir git_demo

Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502
$ cd git_demo

Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo
$ ls

Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo
$ ls -la
total 4
drwxr-xr-x 1 Tapasya 197121 0 Nov 15 15:42 ./
drwxr-xr-x 1 Tapasya 197121 0 Nov 15 15:42 ../
```

i. add a couple files to the repo (SC)

```
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo
$ touch my_first_file.txt

Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo
$ touch my_second_file.txt

Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo
$ git init
Initialized empty Git repository in C:/Users/Tapasya/PycharmProjects/tcss502/git_demo/.g

Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (master)
$ ls
my_first_file.txt my_second_file.txt
```

ii. create another branch and add a file to that branch (SC)

```
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (master)
$ git checkout -b new_branch
Switched to a new branch 'new_branch'

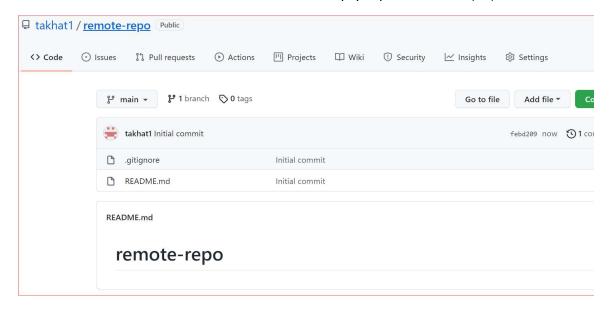
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (new_branch)
$ touch my_new_branch_file.txt

Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (new_branch)
$ ls
my_first_file.txt my_new_branch_file.txt my_second_file.txt
```

iii. merge the contents of that branch into master/main branch (SC)

```
Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (new_branch)
$ git add .
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (new_branch)
$ git commit -m "initial commit"
[new_branch (root-commit) 24f725f] initial commit
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 my_first_file.txt
create mode 100644 my_new_branch_file.txt
create mode 100644 my_second_file.txt
Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (new_branch)
$ git status
On branch new_branch
nothing to commit, working tree clean
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (new_branch)
$ git checkout main
error: pathspec 'main' did not match any file(s) known to git
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (new_branch)
$ git checkout -b main
Switched to a new branch 'main'
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (main)
$ git merge new_branch
Already up to date.
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (main)
Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_demo (main)
$ git log
 ommit 24f725f3bdf413254a6453e45e60aca960e29e6c (HEAD -> main, new_branch)
Author: Tapasya Khatri <takhat014@gmail.com>
       Mon Nov 15 15:48:42 2021 -0800
Date:
    initial commit
```

B. Create an account on GitHub and create an empty repo on GitHub (SC)



a. i. copy (push) contents of local repository to empty repository on GitHub (SC)

```
NINGW64:/c/Users/Tapasya/pycharmProjects/tcss502/local_repo
apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
git init
initialized empty Git repository in C:/Users/Tapasya/PycharmProjects/tcss502/1
al_repo/.git/
[apasya@Mac-Windows MINGw64 ~/pycharmProjects/tcss502/local_repo (master)
touch test.txt
Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
§ git status
on branch master
No commits yet
Jntracked files:
 (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
 git add .
apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
 git commit -m "added test.txt"
master (root-commit) ac9da94] added test.txt
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt
[apasya@Mac-Windows MINGw64 ~/pycharmProjects/tcss502/local_repo (master)
 git branch -M main
apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
 git remote add origin https://github.com/takhatl/remote-repo.git
```

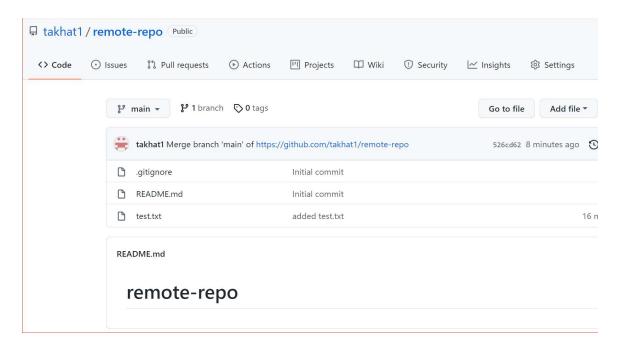
a. ii. add a file to the repo on GitHub then pull that file to your local machine (SC)

```
Tapasya@Mac-Windows MINGw64 ~/pycharmProjects/tcss502/local_repo (main)
$ git pull origin main --allow-unrelated-histories
From https://github.com/takhat1/remote-repo
* branch
                       main
                                    -> FETCH_HEAD
Merge made by the 'recursive' strategy.
 2 files changed, 130 insertions(+) create mode 100644 .gitignore
 create mode 100644 README.md
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 524 bytes | 104.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/takhat1/remote-repo.git
   febd209..526cd62 main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
$ 1s
README.md test.txt
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
$ git log
commit 526cd62c52dc8f4a755540ac58c7cd8517fb29ca (HEAD -> main, origin/main)
Merge: ac9da94 febd209
Author: takhat1 <tk14@uw.edu>
         Tue Nov 16 14:51:49 2021 -0800
Date:
    Merge branch 'main' of https://github.com/takhat1/remote-repo
commit ac9da945270c59771c3ba3e56acc0f6845badbf0
Author: takhat1 <tk14@uw.edu>
         Tue Nov 16 14:43:57 2021 -0800
Date:
    added test.txt
commit febd2090b0e21e034f8d89fc13340c9087581d7f
Author: takhat1 <94266167+takhat1@users.noreply.github.com>
         Tue Nov 16 14:03:25 2021 -0800
Date:
    Initial commit
```

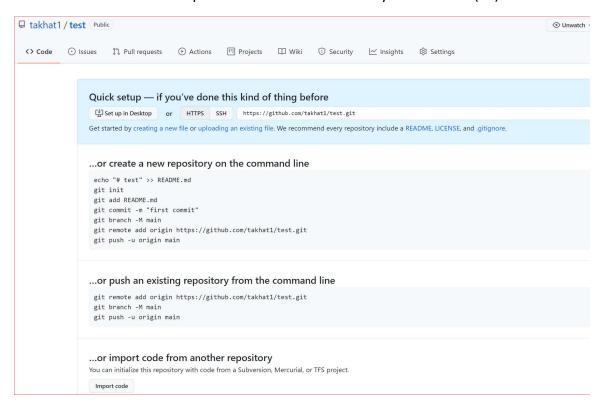
a. iii. add another file to your local repo and push that to GitHub (SC)

done in a.i. above

Added test.txt



b. create another repo on GitHub and clone it to your machine (SC)



```
MINGW64:/c/Users/Tapasya/pycharmProjects/tcss502/test_clone_repo

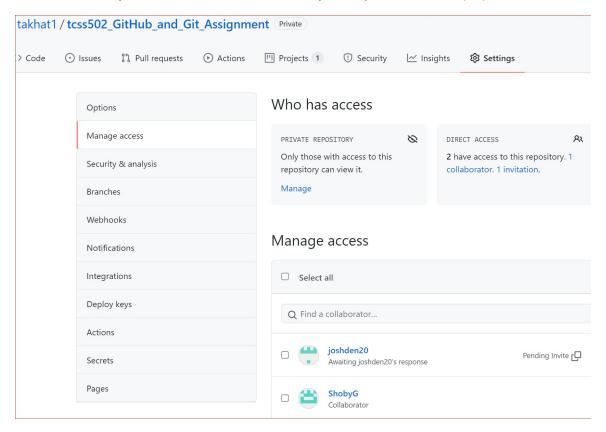
[apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/test_clone_repo (maximit alized empty Git repository in C:/Users/Tapasya/PycharmProjects/tcssc_clone_repo/.git/

[apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/test_clone_repo (maximit alized empty://github.com/takhat1/test.git clone https://github.com/takhat1/test.git cloning into 'test'...

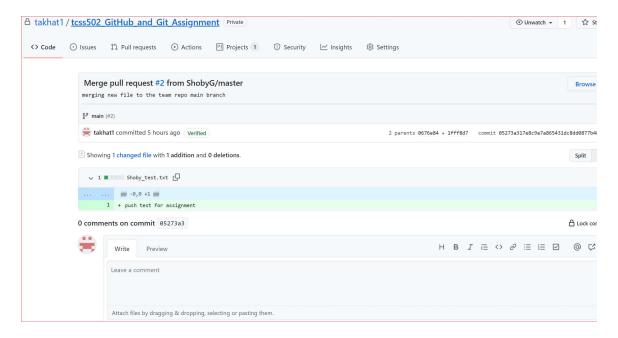
[araning: You appear to have cloned an empty repository.]

[apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/test_clone_repo (maximit alized empty repository.]
```

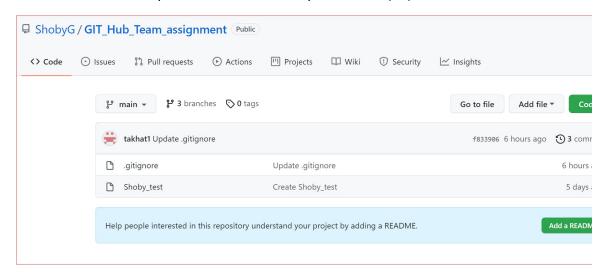
c. invite your team members to one of your repos on GitHub (SC)



c. i. have them clone the repo to their local machine (SC)



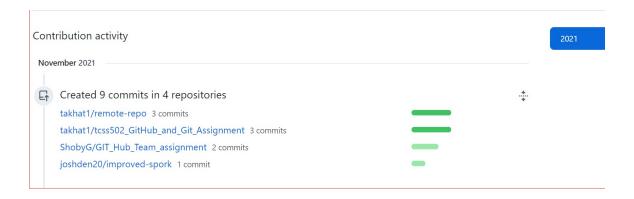
c. ii. have them create their own branch in that repo on their local machine then push the new branch up to GitHub (SC)



c. iii. have each team member add a file to the master/main branch from their local machine and push that up to GitHub (SC)

shown in c ii. above

c. iv. practice push/pull with GitHub repo to make sure everyone stays in synch with the files on GitHub (SC as necessary to show this)



Appendix: Full Screenshots

```
MINGW64:/c/Users/Tapasya/pycharmProjects/tcss502/local_repo
$ git init
Initialized empty Git repository in C:/Users/Tapasya/PycharmProjects/tcss502/loc
 al_repo/.git/
   touch test.txt
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
$ git status
 n branch master
No commits yet
Untracked files:
   (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
   git add .
 Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
Figit commit -m "added test.txt"
[master (root-commit) ac9da94] added test.txt
I file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
   git branch -M main
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
git remote add origin https://github.com/takhat1/remote-repo.git
                      Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
 *git pull origin main remote: Enumerating objects: 4, done. remote: Counting objects: 100% (4/4), done. remote: Compressing objects: 100% (3/3), done. remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 Unpacking objects: 100% (4/4), 1.56 KiB | 36.00 KiB/s, done. From https://github.com/takhatl/remote-repo * branch main -> FETCH_HEAD * [new branch] main -> origin/main
  git pull origin main
 fatal: refusing to merge unrelated histories
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
git pull origin main --allow-unrelated-histories
rom https://github.com/takhatl/remote-repo
* branch main -> FETCH_HEAD
 2 files changed, 130 insertions(+) create mode 100644 .gitignore create mode 100644 README.md
                                               4 ~/pycharmProjects/tcss502/local_repo (main)
                 ac-Windows M
  git push -u origin main
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 524 bytes | 104.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/takhatl/remote-repo.git
    febd209..526cd62 main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
README.md test.txt
             @Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
 lapasyawmac - Arnhous
5 git log
commit 526cd62c52dc8f4a755540ac58c7cd8517fb29ca (HEAD -> main, origin/main)
Merge: ac9da94 febd209
Author: takhatl <tk14@uw.edu>
Date: Tue Nov 16 14:51:49 2021 -0800
       Merge branch 'main' of https://github.com/takhat1/remote-repo
 commit ac9da945270c59771c3ba3e56acc0f6845badbf0
Author: takhat1 <tk14@uw.edu>
Date: Tue Nov 16 14:43:57 2021 -0800
       added test.txt
 commit febd2090b0e21e034f8d89fc13340c9087581d7f
Author: takhat1 <94266167+takhat1@users.noreply.github.com>
Date: Tue Nov 16 14:03:25 2021 -0800
       Initial commit
```

```
MINGW64:/c/Users/Tapasya/pycharmProjects/tcss502/local_repo
                                              ~/pycharmProjects/tcss502/local_repo (master)
Initialized empty Git repository in C:/Users/Tapasya/PycharmProjects/tcss502/loc
al_repo/.git/
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
   touch test.txt
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
§ git status
On branch master
 No commits yet
   (use "git add <file>..." to include in what will be committed)
 nothing added to commit but untracked files present (use "git add" to track)
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
   git add .
 Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (master)
git commit -m "added test.txt"
[master (root-commit) ac9da94] added test.txt
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt
  apasya@Mac-Windows MINGw64 ~/pycharmProjects/tcss502/local_repo (master) git branch -M main
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main) git remote add origin https://github.com/takhatl/remote-repo.git
          a@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
$ git pull origin main
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 1.56 KiB | 36.00 KiB/s, done.
From https://github.com/takhatl/remote-repo

* branch main -> FETCH_HEAD

* [new branch] main -> origin/main
$ git pull origin main
 4 ~/pycharmProjects/tcss502/local_repo (main)
  git pull origin main --allow-unrelated-histories
rom https://github.com/takhat1/remote-repo
 -> FETCH_HEAD
 2 files changed, 130 insertions(+) create mode 100644 .gitignore create mode 100644 README.md
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
  git push -u origin main
 Enumerating objects: 6, done.
Counting objects: 100% (6/6), done
Counting objects: 100% (6/b), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 524 bytes | 104.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/takhatl/remote-repo.git
febd209..526cd62 main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
README.md test.txt
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/local_repo (main)
  git log
ommit 526cd62c52dc8f4a755540ac58c7cd8517fb29ca (HEAD -> main, origin/main)
 Merge: ac9da94 febd209
Author: takhat1 <tk14@uw.edu>
Date: Tue Nov 16 14:51:49 2021 -0800
      Merge branch 'main' of https://github.com/takhat1/remote-repo
commit ac9da945270c59771c3ba3e56acc0f6845badbf0
Author: takhat1 <tk14@uw.edu>
Date: Tue Nov 16 14:43:57 2021 -0800
       added test.txt
commit febd2090b0e21e034f8d89fc13340c9087581d7f
Author: takhat1 <94266167+takhat1@users.noreply.github.com>
Date: Tue Nov 16 14:03:25 2021 -0800
```

Initial commit

```
MINGW64:/c/Users/Tapasya/pycharmProjects/tcss502/git_assignment_local_cloned_repo
                         MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
d_repo (master)
$ git clone https://github.com/ShobyG/GIT_Hub_Team_assignment.git .
Cloning into '.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
 Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
 repo (main)
$ git branch Tapasya
 Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
_repo (main)
$ git checkout Tapasya
Switched to branch 'Tapasya'
 apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
 _repo (Tapasya)
$ git add .
Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
d_repo (Tapasya)
$ git commit -m "adding a new branch created locally"
On branch Tapasya
nothing to commit, working tree clean
Fapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
d_repo (Tapasya)
$ git push -u origin Tapasya
Total O (delta O), reused O (delta O), pack-reused O
remote:
remote: Create a pull request for 'Tapasya' on GitHub by visiting: remote: https://github.com/ShobyG/GIT_Hub_Team_assignment/pull/new/Tapasya
remote:
To https://github.com/ShobyG/GIT_Hub_Team_assignment.git
* [new branch] Tapasya -> Tapasya
                         Tapasya -> Tapasya
Branch 'Tapasya' set up to track remote branch 'Tapasya' from 'origin'.
Fapasya@Mac-Windows MinGw64 ~/pycharmProjects/tcss502/git_assignment_local_clone
d_repo (Tapasya)
$ git branch -a
  Tapasya
  main
           /origin/HEAD -> origin/main
 apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
 repo (Tapasya)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
 apasya@Mac-Windows MinGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone"
d_repo (main)
$ git pull origin main
From https://github.com/ShobyG/GIT_Hub_Team_assignment
                                      -> FETCH_HEAD
 * branch
                         main
Already up to date.
 apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_clone
 repo (main)
$ git branch --merged
  Tapasya
  main
```

```
MINGW64:/c/Users/Tapasya/pycharmProjects/tcss502/git_assignment_local_cloned_repo
 apasya@Mac-Windows MINGw64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
$ touch .gitignore
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main) $ git status
On branch main
Your branch is up to date with 'origin/main'.
 Intracked files:
   (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
  apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
$ git commit -m "added .gitignore file"
[main 89ab432] added .gitignore file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 .gitignore
 Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
$ git pull origin master
fatal: couldn't find remote ref master
Tapasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
$ git pull origin main
From https://github.com/ShobyG/GIT_Hub_Team_assignment
   * branch main -> FETCH_HEAD
Already up to date.
  apasya@Mac-Windows MINGw64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
$ git push origin main
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 273 bytes | 273.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShobyG/GIT_Hub_Team_assignment.git
    4fa57dd..89ab432 main -> main
 apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
$ git log
commit 89ab432c46f9195d8633b0dcd1155101716a3dd1 (HEAD -> main, origin/main, origin/HEAD)
Author: takhat1 <tk14@uw.edu>
Date: Tue Nov 16 11:20:29 2021 -0800
      added .gitignore file
commit 4fa57ddfac5d57e6350e59380cb049012665d8ae (origin/tapasya, origin/Tapasya)
Author: ShobyG <91856251+ShobyG@users.noreply.github.com>
Date: Thu Nov 11 19:00:29 2021 -0800
      Create Shoby_test
 apasya@Mac-Windows MINGW64 ~/pycharmProjects/tcss502/git_assignment_local_cloned_repo (main)
```