Git and GITHub Assignment

Create local repository (SC) :

pwd:

git init and ls -la

Adding files to the local repository :

git add <file_name>

git status

git commit -m "Initial commit for git assignment"

Create another branch and add a file to that branch (SC)

```
git checkout -b new_branch
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git checkout -b new_branch
Switched to a new branch 'new_branch'

ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (new_branch)
```

```
git add new_branch_file.txt
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (new_branch)
$ git add new_branch_file.txt
```

```
git commit -m "new branch test file"
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (new_branch)
$ git commit -m "new branch test file"
[new_branch f996325] new branch test file
 1 file changed, 1 insertion(+)
 create mode 100644 new_branch_file.txt
```

Merge the contains of that branch into master/main branch (SC)

```
git merge new_branch
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git merge new_branch
Updating 3ce19b9..f996325
Fast-forward
 new_branch_file.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 new_branch_file.txt
```

Working with the GITHub:

copy (push) contents of local repository to empty repository on GitHub (SC):

```
#git remote add GIT_assignment_Repo git@github.com:ShobyG/GitHub_assignment.git
```

```
#git push GIT_assignment_Repo master
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git push GIT_assignment_Repo master
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (7/7), 283.25 KiB | 9.44 MiB/s, done.
Total 7 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To github.com:ShobyG/GitHub_assignment.git
 * [new branch]      master -> master
```

Contents successfully pushed to GITHub repo:

Add a file to the repo on GitHub then pull that file to your local machine:

Created a new file in the remote repo:

Pulling the new file to the local repository:

```
git branch -r

git fetch GIT_assignment_Repo

git merge GIT_assignment_Repo/master master
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git branch -r
  GIT_assignment_Repo/master

ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git fetch GIT_assignment_Repo
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 675 bytes | 39.00 KiB/s, done.
From github.com:ShobyG/GitHub_assignment
   f996325..151646d  master     -> GIT_assignment_Repo/master

ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git merge GIT_assignment_Repo/master master
Updating f996325..151646d
Fast-forward
 test_pull.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 test_pull.txt
```

New file added to the local repo:

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ ls
GitHub_assignment/  Git_assignment_info.pdf  Test1.txt  new_branch_file.txt  test_pull.txt
```

Add another file to your local repo and push that to GitHub

```
git add Second_test_file.docx
```

```
git commit -m "second_test_file"
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git add Second_test_file.docx

ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git commit -m "second_test_file"
[master f9cf755] second_test_file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Second_test_file.docx

ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git status
On branch master
nothing to commit, working tree clean
```

```
git push GitHub_assignment master
```

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git push GitHub_assignment master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 9.32 KiB | 9.32 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:ShobyG/GitHub_assignment.git
   e4d8ad1..f9cf755  master -> master
```

Second file added to the remote repo:

ShobyG second_test_file		f9cf755 7 minutes ago	6 commits
Git_assignment_info.pdf	Initial commit for git assignment		4 hours ago
Second_test_file.docx	second_test_file		7 minutes ago
Test1.txt	Initial commit for git assignment		4 hours ago
new_branch_file.txt	new branch test file		3 hours ago
test_pull.txt	Create test_pull.txt		31 minutes ago

Create another repo on GitHub and clone it to your machine (SC):

ShobyG / GIT_Hub_Team_assignment Public

<> Code   ⊙ Issues   ⑂ Pull requests   ⊙ Actions   ▦ Projects   ⊞ Wiki   ⊙ Security   ⚊ Insights   ⚙ Settings

⑂ main ▾   ⑂ 1 branch   ⬡ 0 tags   Go to file   Add file ▾   Code ▾

ShobyG Create Shoby_test   4fa57dd 1 minute ago   1 commit

Shoby_test   Create Shoby_test   1 minute ago

Cloning it to the local repo:

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/GIT_assignment_Repo (master)
$ git clone git@github.com:ShobyG/GIT_Hub_Team_assignment.git
Cloning into 'GIT_Hub_Team_assignment'...
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.
```

New repo is cloned to the master branch:

GIT_Hub_Team_assignment	11/11/2021 7:01 PM	File folder	
Git_assignment_info	11/11/2021 9:47 AM	Microsoft Edge PD...	318 KB
new_branch_file	11/11/2021 11:02 AM	Text Document	1 KB
Second_test_file	11/11/2021 1:52 PM	Microsoft Word D...	12 KB
test_pull	11/11/2021 1:40 PM	Text Document	1 KB
Test1	11/11/2021 9:45 AM	Text Document	1 KB

Team push and pull:

Adding team repo to local:

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/TCSS_502_oops/Team_repo
$ git init
Initialized empty Git repository in C:/Shoby/Gc-SDE/TCSS_502_oops/Team_repo/.git
/

ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/TCSS_502_oops/Team_repo (mast
er)
$ git remote add team_repo git@github.com:takhat1/tcss502_GitHub_and_Git_Assignment.git
```

git pull team_repo main

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/TCSS_502_oops/Team_repo (master)
$ git pull team_repo main
From github.com:takhat1/tcss502_GitHub_and_Git_Assignment
 * branch            main        -> FETCH_HEAD

ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/TCSS_502_oops/Team_repo (master)
$ ls
README.md
```

Adding a new file to the team repo:

git add Shoby_test.txt

git commit -m "team repo commit comment"

git push team_repo master

```
ShobyMaher@DESKTOP-CGSOR7T MINGW64 /c/Shoby/Gc-SDE/TCSS_502_oops/Team_repo (master)
$ git push team_repo master
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), 342 bytes | 171.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:      https://github.com/takhat1/tcss502_GitHub_and_Git_Assignment/pull/new/master
remote:
To github.com:takhat1/tcss502_GitHub_and_Git_Assignment.git
 * [new branch]      master -> master
```

New file successfully added to the team repo:

master	2 branches	0 tags		Go to file	Add file ▾	Code ▾

This branch is up to date with takhat1:master.   ⇅ Contribute ▾   ⟳ Fetch upstream ▾

ShobyG team repo commit comment		1fff8d7 14 hours ago	⏱ 3 commits
.gitignore	Initial commit		19 hours ago
README.md	Update README.md		18 hours ago
Shoby_test.txt	team repo commit comment		14 hours ago

README.md ✎

Team 5 TCSS 502 GitHub and Git Assignment

Merged it to the main branch:

main	2 branches	0 tags		Go to file	Add file ▾	Code ▾

takhat1 Merge pull request #2 from ShobyG/master ...		05273a3 1 minute ago	⏱ 4 commits
.gitignore	Initial commit		20 hours ago
README.md	Update README.md		20 hours ago
Shoby_test.txt	team repo commit comment		15 hours ago

README.md ✎

Team mates working on the team repo:

🖥 ShobyG / GIT_Hub_Team_assignment Public

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main ▾	3 branches	0 tags		Go to file	Add file ▾	Code ▾

takhat1 Update .gitignore		f833906 11 hours ago	⏱ 3 commits
.gitignore	Update .gitignore		11 hours ago
Shoby_test	Create Shoby_test		5 days ago

Push #1

joshden20 commented 1 hour ago   Collaborator ☺ ⋯

Prjnt("hello world")