

1. Start by creating a new local repository for your course work.

a. Name the folder biocomputing_assignments.

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads (master)
$ cd biocomputing_assignments/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ ls

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ git init
Initialized empty Git repository in C:/Users/Nabendu/Downloads/biocomputing_assignments/.git/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ git config user.name "nabendudas"

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ git config user.email "nabendudas001@gmail.com"

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ mkdir Lab-1_assignment

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ cp "C:\Users\Nabendu\Downloads\Lab_session-1.pdf" Lab-1_assignment/
```

Using mkdir command first we create a directory named biocomputing_assignments in our local repository. Using git init command create a local repository. Then we stored the authors identity using git config command. Next we create a Lab-1_assignment folder inside the biocomputing_assignment directory. Then we copy the question file inside the Lab-1_assignment.

2. Inside this folder, add a new sub-folder for Lab-1 Assignment.

a. Place the given question file and your answer file in this sub-folder.

b. Track these files and commit them to your local repository.

c. Push the changes to a new remote repository on GitHub called BE623_biocomputing.

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ cp "C:\Users\Nabendu\Downloads\24250059_assignment-1.pdf" ./

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ ls
24250059_assignment-1.pdf  Lab_session-1.pdf

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ git status
On 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)
```

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ pwd
/c/Users/Nabendu/Downloads/biocomputing_assignments/Lab-1_assignment

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ git add /c/Users/Nabendu/Downloads/biocomputing_assignments/Lab-1_assignment

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ git status
On branch master

No commits yet

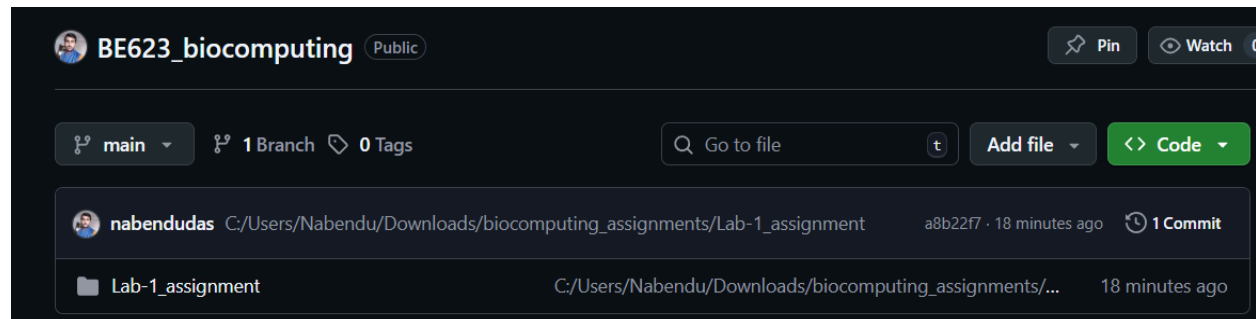
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   24250059_assignment-1.pdf
    new file:   Lab_session-1.pdf
```

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ git commit -m "/c/Users/Nabendu/Downloads/biocomputing_assignments/Lab-1_assignment"
[master (root-commit) a8b22f7] C:/Users/Nabendu/Downloads/biocomputing_assignments/Lab-1_assignment
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Lab-1_assignment/24250059_assignment-1.pdf
create mode 100644 Lab-1_assignment/Lab_session-1.pdf
```

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ git remote add origin https://github.com/nabendudas/BE623_biocomputing.git

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (master)
$ git branch -M main

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab-1_assignment (main)
$ git push -u origin main
```



Next we also copy the answer file in the Lab-1_assignment. Then we see the status using git status. Then we stage the files using git add. Then we select a commit message using git commit -m.

On the other side login my github and create a repository named BE623_biocomputing. Then copy the HTTPS url and run this using git remote add origin. Then upload committed files in Github using git push.

3. Next, add a second sub-folder for Lab-2 Assignment inside your repository.
 - a. Copy the question and answer files into this folder.
 - b. Check the repository status to confirm the new files are untracked.
 - c. Track and commit these files.
 - d. Push the updated repository to GitHub.

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ mkdir Lab_assignment-2

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ ls
Lab_1_assignment/  Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab2\Lab_Assignment-2.pdf" Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab2\24250059_Nabendu.pdf" Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab2\sequence1.fasta" Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab2\sequence2.fasta" Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab2\sequence3.fasta" Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab2\sequence4.fasta" Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab2\sequence5.fasta" Lab_assignment-2/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (Lab_1)
$ cd Lab_assignment-2

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-2 (Lab_1)
$ ls
24250059_Nabendu.pdf  Lab_Assignment-2.pdf  sequence1.fasta  sequence2.fasta  sequence3.fasta  sequence4.fasta  sequence5.fasta
```

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-2 (master)
$ git add /c/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-2
warning: in the working copy of 'Lab_assignment-2/sequence1.fasta', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Lab_assignment-2/sequence2.fasta', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Lab_assignment-2/sequence3.fasta', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Lab_assignment-2/sequence4.fasta', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Lab_assignment-2/sequence5.fasta', LF will be replaced by CRLF the next time Git touches it





Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-2 (master)
$ git commit -m /c/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-2
[master 0c18956] C:/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-2
7 files changed, 211 insertions(+)
create mode 100644 Lab_assignment-2/24250059_Nabendu.pdf
create mode 100644 Lab_assignment-2/Lab_Assignment-2.pdf
create mode 100644 Lab_assignment-2/sequence1.fasta
create mode 100644 Lab_assignment-2/sequence2.fasta
create mode 100644 Lab_assignment-2/sequence3.fasta
create mode 100644 Lab_assignment-2/sequence4.fasta
create mode 100644 Lab_assignment-2/sequence5.fasta
```

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-2 (master)
$ git status
On branch master
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
```

```

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-2 (master)
$ git push -u origin master
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 12 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (10/10), 666.84 KiB | 12.35 MiB/s, done.
Total 10 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/nabendudas/BE623_biocomputing/pull/new/master
remote:
To https://github.com/nabendudas/BE623_biocomputing.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

```

 nabendudas	C:/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-2	0c18956 · 6 minutes ago	 2 Commits
 Lab-1_assignment	C:/Users/Nabendu/Downloads/biocomputing_assignments/...	42 minutes ago	
 Lab_assignment-2	C:/Users/Nabendu/Downloads/biocomputing_assignments/...	6 minutes ago	

4. Repeat the process for Lab-3 Assignment.
 - a. Create a new sub-folder named lab-3_assignment.
 - b. Add the corresponding question and answer files.
 - c. Track and commit the files.
 - d. Push the changes to your GitHub repository.

```

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ mkdir Lab_assignment-3

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab3\lab_assignment_3.pdf" Lab_assignment-3/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab3\clock_gene.fasta" Lab_assignment-3/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab3\protein.fasta" Lab_assignment-3/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab3\protein.pdb" Lab_assignment-3/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ cp "E:\M.Tech\3rd Sem\Biocomputing\Lab3\24250059_Assignment-3.pdf" Lab_assignment-3/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments (master)
$ cd Lab_assignment-3/

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-3 (master)
$ ls
24250059_Assignment-3.pdf  clock_gene.fasta  lab_assignment_3.pdf  protein.fasta  protein.pdb

```






```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-3 (master)
$ git add /c/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-3
warning: in the working copy of 'Lab_assignment-3/clock_gene.fasta', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Lab_assignment-3/protein.fasta', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'Lab_assignment-3/protein.pdb', LF will be replaced by CRLF the next time Git touches it

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-3 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   24250059_Assignment-3.pdf
    new file:   clock_gene.fasta
    new file:   lab_assignment_3.pdf
    new file:   protein.fasta
    new file:   protein.pdb
```

```
Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-3 (master)
$ git commit -m /c/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-3
[master 69c468f] C:/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-3
5 files changed, 1053 insertions(+)
create mode 100644 Lab_assignment-3/24250059_Assignment-3.pdf
create mode 100644 Lab_assignment-3/clock_gene.fasta
create mode 100644 Lab_assignment-3/lab_assignment_3.pdf
create mode 100644 Lab_assignment-3/protein.fasta
create mode 100644 Lab_assignment-3/protein.pdb

Nabendu@LAPTOP-DM1JT3BQ MINGW64 ~/Downloads/biocomputing_assignments/Lab_assignment-3 (master)
$ git push -u origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 1.15 MiB | 1.14 MiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nabendudas/BE623_biocomputing.git
   0c18956..69c468f  master -> master
branch 'master' set up to track 'origin/master'.
```

 nabendudas	C:/Users/Nabendu/Downloads/biocomputing_assignments/Lab_assignment-3	69c468f · 10 minutes ago	 3 Commits
 Lab-1_assignment	C:/Users/Nabendu/Downloads/biocomputing_assignments/...	1 hour ago	
 Lab_assignment-2	C:/Users/Nabendu/Downloads/biocomputing_assignments/...	23 minutes ago	
 Lab_assignment-3	C:/Users/Nabendu/Downloads/biocomputing_assignments/...	10 minutes ago	

Follow the same steps for uploading the Lab_assignment-2 and Lab_assignment-3.