



*Assignment # 01*

Cloud Computing

Department of Software Engineering

Submitted By:

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**Task 1:**

**Run Gitea in Codespace and Create an Initial Repo**

- New repository on gitea server:

A screenshot of a web-based Git repository interface, likely Gitea. At the top, there are navigation links: Issues, Pull Requests, Milestones, Explore, and a user icon. The 'Explore' tab is currently selected. Below the navigation bar, there are three main tabs: Repositories (selected), Users, and Organizations. A search bar labeled 'Search repos...' is located below the tabs. The main content area displays a single repository entry: 'rafiafiaz\_051 / Assignment-1'. The repository has 0 stars and 0 forks. The last update was 17 hours ago. The entire interface has a dark theme.

- Added README.md file on gitea repo:

The screenshot shows a GitHub repository named "rafiafiaz\_051 / Assignment-1". The README.md file contains the following content:

```

1 #Assignment 1
2
3 Name: Rafia Fiaz
4 Roll No: 2023-BSE-051
5
6

```

- Connection with gitbash:

```

Mehwish@Home MINGW64 ~/Documents
$ git init
Initialized empty Git repository in c:/users/Mehwish/Documents/.git/
Mehwish@Home MINGW64 ~/Documents (master)
$ git remote add gitea https://Admin:Id13e0e78d8351fb42787585c5f878fb262bf55c@curly-garbanzo-4jpg66vxwr4jh446-3000.app.github.dev/rafiafiaz_051/Assignment-1.git
Mehwish@Home MINGW64 ~/Documents (master)
$ git pull
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (6/6), 547 bytes | 16.00 KiB/s, done.
From https://curly-garbanzo-4jpg66vxwr4jh446-3000.app.github.dev/rafiafiaz_051/Assignment-1
 * [new branch]      main    -> gitea/main
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

git branch --set-upstream-to=gitea/<branch> master

Mehwish@Home MINGW64 ~/Documents (master)
$ git branch -M main

Mehwish@Home MINGW64 ~/Documents (main)
$ git pull gitea main
From https://curly-garbanzo-4jpg66vxwr4jh446-3000.app.github.dev/rafiafiaz_051/Assignment-1
 * branch      main    -> FETCH_HEAD

```

- Checking README.md exists in local branch:

```
Mehwish@Home MINGW64 ~/Documents (main)
$ cat README.md
#Assignment 1

Name: Rafia Fiaz
Roll No: 2023-BSE-051
```

- Added another line in README.md:

```
Mehwish@Home MINGW64 ~/Documents (main)
$ echo "New file added from gitbash" >> README.md

Mehwish@Home MINGW64 ~/Documents (main)
$ cat README.md
#Assignment 1

Name: Rafia Fiaz
Roll No: 2023-BSE-051

New file added from gitbash
```

- Commit

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git add .
git commit -m "Local commit"
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
[main e265603] Local commit
 1 file changed, 1 insertion(+)
```

- Push to gitea:

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git push -u gitea main
Locking support detected on remote "gitea". Consider enabling it with:
  $ git config lfs.https://curly-garbanzo-4jpg66vxwr4jh446-3000.app.github.dev/rafiafiaz_051/Assignment-1.git/info/lfs.locksverify true
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 710 bytes | 236.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: . Processing 1 references
remote: Processed 1 references in total
To https://curly-garbanzo-4jpg66vxwr4jh446-3000.app.github.dev/rafiafiaz_051/Assignment-1.git
  108c45a..89142f2 main -> main
branch 'main' set up to track 'gitea/main'.
```

- Local Commit is shown on gitea GUI:

The screenshot shows the Gitea web interface for a repository named 'Assignment-1'. At the top, there are buttons for 'main' (selected), 'Code', 'Go to file', and 'Add File'. Below this is a list of commits:

Author	Commit ID	Message	Time Ago
Rafia Fiaz	89142f205b	Local commit	15 minutes ago
	.gitattributes	Add large files with Git LFS tracking	17 minutes ago
	README.md	Local commit	15 minutes ago

Below the commits, the 'README.md' file is displayed:

```
#Assignment 1
Name: Rafia Fiaz Roll No: 2023-BSE-051
New file added from gitbash
```

## Task 2:

### Mirror README.md from Gitea to GitHub

- Created a github Repository “Assignment-1”
- Added GITHUB as a second remote:

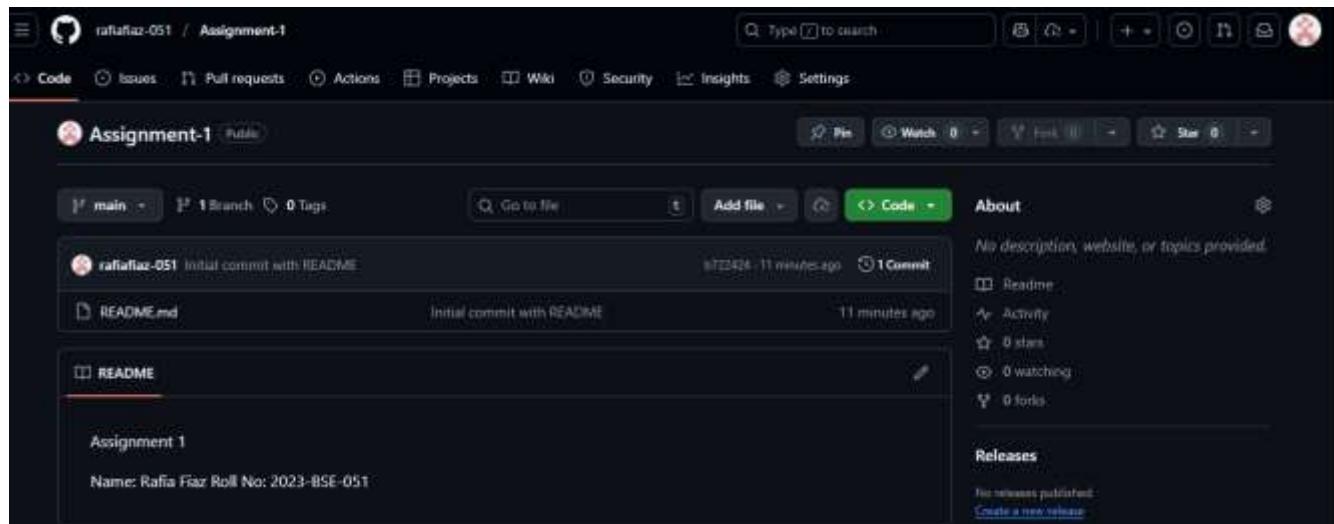
```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git remote add github https://github.com/rafiafiaz-051/assignment1.git
git remote -v
error: remote github already exists.
github  https://github.com/rafiafiaz-051/assignment1.git (fetch)
github  https://github.com/rafiafiaz-051/assignment1.git (push)

Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git remote -v
github  https://github.com/rafiafiaz-051/assignment1.git (fetch)
github  https://github.com/rafiafiaz-051/assignment1.git (push)
```

- Pushed README.md to Github:

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git push -u github main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
writing objects: 100% (3/3), 288 bytes | 72.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/rafiafiaz-051/Assignment-1.git
 * [new branch]      main -> main
branch 'main' set up to track 'github/main'.
```

- Verifying README.md is pushed to Github repo:



- Showing both remotes i.e; Gitea & Github:

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git remote -v
gitea  https://curly-garbanzo-4jpg66vxwr4jh446-3000.app.github.dev/rafiafiafaz_051/Assignment-1.git (fetch)
gitea  https://curly-garbanzo-4jpg66vxwr4jh446-3000.app.github.dev/rafiafiafaz_051/Assignment-1.git (push)
github https://github.com/rafiafiafaz-051/Assignment-1.git (fetch)
github https://github.com/rafiafiafaz-051/Assignment-1.git (push)
```

### Task 3:

#### Use Git LFS for Large Files

- Installed Git LFS & Added large files:

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git lfs install
Updated Git hooks.
Git LFS initialized.
```

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git lfs track "*.mp4"
git lfs track "*.zip"
git lfs track "*.csv"
Tracking "*.mp4"
Tracking "*.zip"
Tracking "*.csv"
```

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git add .gitattributes
git add video.mp4 data.zip dataset.csv
git commit -m "Add large files with Git LFS tracking"
fatal: pathspec 'video.mp4' did not match any files
[main 397b13e] Add large files with Git LFS tracking
 1 file changed, 3 insertions(+)
 create mode 100644 .gitattributes
```

```
Mehwish@Home MINGW64 ~/Documents/Assignment-1 (main)
$ git push github main
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), 362 bytes | 120.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/rafiafiafaz-051/Assignment-1.git
 b722424..397b13e main -> main
```

- Reference in Assignment-1 repo:

The screenshot shows a GitHub repository named "Assignment-1". The repository has 1 branch and 0 tags. A recent commit by "rafaifiaz-051" titled "Add large files with Git LFS tracking" was made 18 hours ago. This commit includes a file named ".gitattributes" which contains the following content:

```

*.mp4 filter=lfs diff=lfs merge=lfs -text
*.zip filter=lfs diff=lfs merge=lfs -text
*.csv filter=lfs diff=lfs merge=lfs -text

```

## Task 4:

### Create a Portfolio/CV with GitHub Pages

**Create a new repository**

Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#).  
Required fields are marked with an asterisk (\*).

**1 General**

**Owner \*** rafafiaz-051 / **Repository name \*** rafafiaz-051.github.io  
 rafafiaz-051.github.io is available.

Great repository names are short and memorable. How about [expert-system](#)?

**Description**  
0 / 350 characters

**2 Configuration**

**Choose visibility \*** Public

Choose who can see and commit to this repository

- Designed Portfolio & pushed into ‘rafiafiafaz-051.github.io’ repo:

```
Mehwish@Home MINGW64 ~/Documents/rafiafiafaz-051.github.io (master)
$ echo "<!DOCTYPE html>
<html>
<head>
<title>Rafia Fiaz - Portfolio</title>
</head>
<body>
<h1>Welcome to My Portfolio</h1>
<p>Name: Rafia Fiaz</p>
<p>Roll No: 051</p>
<p>This is my GitHub Pages portfolio.</p>
</body>
</html>" > index.html

Mehwish@Home MINGW64 ~/Documents/rafiafiafaz-051.github.io (master)
$ git init
git add .
git commit -m "Initial portfolio site"
Reinitialized existing Git repository in C:/Users/Mehwish/Documents/rafiafiafaz-051.github.io/.git/
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Mehwish@Home MINGW64 ~/Documents/rafiafiafaz-051.github.io (master)
$ git remote add origin https://github.com/rafiafiafaz-051/rafiafiafaz-051.github.io.git
git push -u origin master
error: remote origin already exists.
branch 'master' set up to track 'origin/master'.
Everything up-to-date
```

- Published Site:

