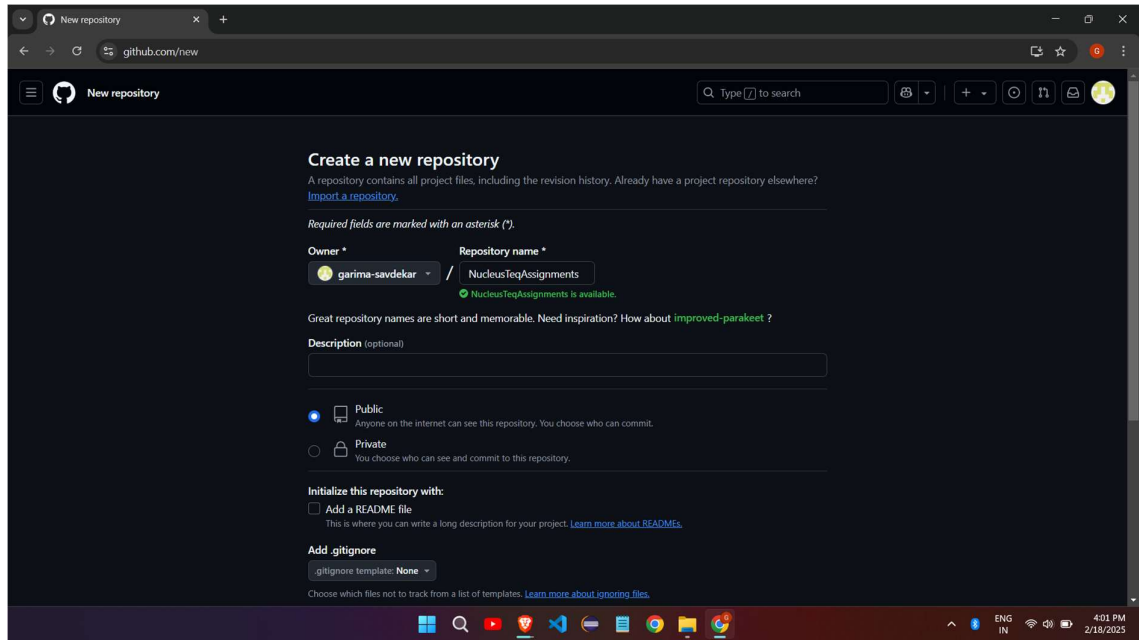
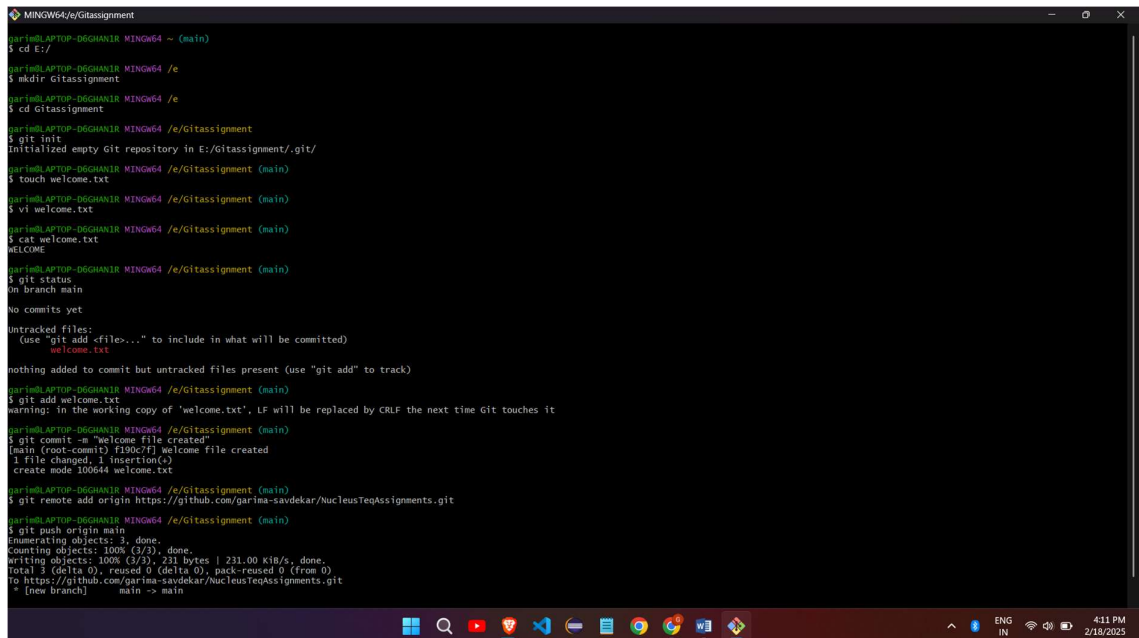


# GIT Assignment

## 1. Create a New Repository



## 2. Create a New File



3. Create a Branch
4. Make changes in the New Branch

```
MINGW64/e/Gitassignment
nothing added to commit but untracked files present (use "git add" to track)
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git add welcome.txt
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git commit -m "welcome file created"
[main (root-commit) f19dc7f] welcome file created
1 file changed, 1 insertion(+)
create mode 100644 welcome.txt
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git remote add origin https://github.com/garima-savdekar/nucleusTeqAssignments.git
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 231 bytes | 231.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/garima-savdekar/nucleusTeqAssignments.git
 [new branch]      main -> main
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git status
On branch main
nothing to commit, working tree clean
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git branch f1
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git checkout f1
Switched to branch 'f1'
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ touch hello.html
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ vi hello.html
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ cat hello.html
<h1>Hello Page</h1>
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ git add .
warning: in the working copy of 'hello.html', LF will be replaced by CRLF the next time Git touches it
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ git commit -m "HTML page created"
[f1 ed831da] HTML page created
1 file changed, 1 insertion(+)
create mode 100644 hello.html
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$
```

5. Create Another Branch

```
MINGW64/e/Gitassignment
Switched to branch 'f1'
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ touch hello.html
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ vi hello.html
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ cat hello.html
<h1>Hello Page</h1>
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ git add .
warning: in the working copy of 'hello.html', LF will be replaced by CRLF the next time Git touches it
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ git commit -m "HTML page created"
[f1 ed831da] HTML page created
1 file changed, 1 insertion(+)
create mode 100644 hello.html
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ git status
On branch f1
nothing to commit, working tree clean
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ git branch f2
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f1)
$ git checkout f2
Switched to branch 'f2'
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ touch design.css
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ vi design.css
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ cat design.css
h1{
    color:red;
}
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ git add .
warning: in the working copy of 'design.css', LF will be replaced by CRLF the next time Git touches it
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ git commit -m "Design created"
[f2 c4f8cf1] Design created
1 file changed, 3 insertions(+)
create mode 100644 design.css
garimh@LAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$
```

## 6. Merge Branches

```
MINGW64/e/Gitassignment
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ vi design.css
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ cat design.css
hl{
  color:red;
}
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ git add .
warning: in the working copy of 'design.css', LF will be replaced by CRLF the next time Git touches it
$ git commit -m "Design created"
[f2 c4f8cf1] Design created
1 file changed, 3 insertions(+)
create mode 100644 design.css
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ git checkout main
Switched to branch 'main'
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git merge f2
Updating f190c7f..ede81da
Fast-forward
 hello.html | 1 +
 1 file changed, 1 insertion(+)
create mode 100644 hello.html
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git merge f2
Updating ede81da..c4f8cf1
Fast-forward
 design.css | 3 +++
 1 file changed, 3 insertions(+)
create mode 100644 design.css
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git status
On branch main
nothing to commit, working tree clean
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 618 bytes | 618.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/garina-savdekar/NucleusTeqAssignments.git
 f190c7f..c4f8cf1 main -> main
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ |
```

## 7. Pull changes from Remote

```
MINGW64/e/Gitassignment
$ git add .
warning: in the working copy of 'design.css', LF will be replaced by CRLF the next time Git touches it
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ git commit -m "Design created"
[f2 c4f8cf1] Design created
1 file changed, 3 insertions(+)
create mode 100644 design.css
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (f2)
$ git checkout main
Switched to branch 'main'
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git merge f1
Updating f190c7f..ede81da
Fast-forward
 hello.html | 1 +
 1 file changed, 1 insertion(+)
create mode 100644 hello.html
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git merge f2
Updating ede81da..c4f8cf1
Fast-forward
 design.css | 3 +++
 1 file changed, 3 insertions(+)
create mode 100644 design.css
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git status
On branch main
nothing to commit, working tree clean
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 618 bytes | 618.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/garina-savdekar/NucleusTeqAssignments.git
 f190c7f..c4f8cf1 main -> main
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git remote add origin main
error: remote origin already exists.
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git pull origin main
From https://github.com/garina-savdekar/NucleusTeqAssignments
 * branch            main       FETCH HEAD
  already up to date.
garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git log
commit c4f8cf1885bc04be74bb052b8dfcd8fb6a0fc1f (HEAD -> main, origin/main, f2)
```

## 8. View Git Log and History

```
MINGW64/e/Gitassignment
* branch      main      -> FETCH_HEAD
Already up to date.

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git log
commit c4f8cf1885bc04bc74bb052b8df8db6a0fe1f (HEAD -> main, origin/main, f2)
Author: garima-savdekar <garimasavdekar2003@gmail.com>
Date:   Tue Feb 18 16:26:52 2025 +0530

    Design created

commit ede81dac5195b020d701734cc407e2033ffe02 (f1)
Author: garima-savdekar <garimasavdekar2003@gmail.com>
Date:   Tue Feb 18 16:17:24 2025 +0530

    HTML page created

commit f190c7ff1819f739db062284476c0b85167d3e9
Author: garima-savdekar <garimasavdekar2003@gmail.com>
Date:   Tue Feb 18 16:09:04 2025 +0530

    Welcome file created

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git log --oneline
c4f8cf1 (HEAD -> main, origin/main, f2) Design created
ede81da (f1) HTML page created
f190c7f Welcome file created

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git status
On branch main
nothing to commit, working tree clean

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ touch intro.txt

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ vi intro.txt

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ cat intro.txt
Introduction
First Name
Last Name
Address

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git add
warning: in the working copy of 'intro.txt', LF will be replaced by CRLF the next time Git touches it

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git commit -m "Introduction added"
[main 5e274e4] Introduction added
1 file changed, 5 insertions(+)
create mode 100644 intro.txt
```

## 9. Git Status and Staging

```
MINGW64/e/Gitassignment

Welcome file created

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git log --oneline
c4f8cf1 (HEAD -> main, origin/main, f2) Design created
ede81da (f1) HTML page created
f190c7f Welcome file created

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git status
On branch main
nothing to commit, working tree clean

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ touch intro.txt

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ vi intro.txt

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ cat intro.txt
Introduction
First Name
Last Name
Address

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git add
warning: in the working copy of 'intro.txt', LF will be replaced by CRLF the next time Git touches it

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git commit -m "Introduction added"
[main 5e274e4] Introduction added
1 file changed, 5 insertions(+)
create mode 100644 intro.txt

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (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), 309 bytes | 309.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/garima-savdekar/NucleusTeqAssignments.git
   c4f8cf1..5e274e4  main -> main

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$ git pull origin main
From https://github.com/garima-savdekar/NucleusTeqAssignments
   branch      main      -> FETCH_HEAD
Already up to date.

garimBLAPTOP-DGSHANIR MINGW64 /e/Gitassignment (main)
$
```

## 10. Revert and Reset

```
MINGW64/e/Gitassignment
[main 5e274e4] Introduction added
1 file changed, 5 insertions(+)
create mode 100644 intro.txt

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (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), 309 bytes | 309.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/garima-savdekar/NucleusTeqAssignments.git
c4f8cf1..5e274e4 main -> main

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (main)
$ git pull origin main
From https://github.com/garima-savdekar/NucleusTeqAssignments
* branch main -> FETCH_HEAD
Already up to date.

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (main)
$ git log --oneline
5e274e4 (HEAD -> main, origin/main) Introduction added
c4f8cf1 (F2) Design created
ade81da (F1) HTML page created
f190c7f Welcome File created

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (main)
$ git revert AC
[main 32e9157] This reverts commit 5e274e4988b3a0b96d90f7c871cd9b89f0530102.
1 file changed, 5 deletions(-)
delete mode 100644 intro.txt

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (main)
$ git log --oneline
32e9157 (HEAD -> main) This reverts commit 5e274e4988b3a0b96d90f7c871cd9b89f0530102.
5e274e4 (origin/main) Introduction added
c4f8cf1 (F2) Design created
ade81da (F1) HTML page created
f190c7f Welcome File created

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (main)
$ git push origin 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% (2/2), 236 bytes | 236.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/garima-savdekar/NucleusTeqAssignments.git
5e274e4..32e9157 main -> main
```

```
MINGW64/e/Gitassignment
[f1 035df8b] Intro added
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 intro.txt

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git log --oneline
035df8b (HEAD -> f1) Intro added
ade81da HTML page created
f190c7f Welcome File created

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git reset 035df8b

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git add .

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git status
On branch f1
nothing to commit, working tree clean

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ touch qualifications.txt

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git status
On branch f1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    qualifications.txt

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

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git add .

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git status
On branch f1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   qualifications.txt

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git commit -m "reset commit and add another file"
[f1 76d4463] reset commit and add another file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 qualifications.txt

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git status
On branch f1
nothing to commit, working tree clean

jarimBLAPTOP-DGCHANIR MINGW64 /e/Gitassignment (f1)
$ git push origin main
Everything up-to-date
```