

1. Create a new Git repository on your local machine and make an initial commit.

```
C:\Windows\System32\cmd x + v
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\user\Desktop\git>git add code.py
C:\Users\user\Desktop\git>git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   code.py
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    example.txt
    example1.txt
C:\Users\user\Desktop\git>git add example.txt
C:\Users\user\Desktop\git>git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   code.py
    new file:   example.txt
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    example1.txt
C:\Users\user\Desktop\git>git commit -m "commiting code and example"
[master (root-commit) a7cdf04] commiting code and example
 2 files changed, 2 insertions(+)
 create mode 100644 code.py
 create mode 100644 example.txt
C:\Users\user\Desktop\git>git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    example1.txt
nothing added to commit but untracked files present (use "git add" to track)
```

```
C:\Windows\System32\cmd x + v
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.
C:\Users\user\Desktop\git>git init
Initialized empty Git repository in C:/Users/user/Desktop/git/.git/
C:\Users\user\Desktop\git>git status
On branch master
No commits yet
nothing to commit (create/copy files and use "git add" to track)
C:\Users\user\Desktop\git>git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    example.txt
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\user\Desktop\git>git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    code.py
    example.txt
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\user\Desktop\git>git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    code.py
    example.txt
    example1.txt
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\user\Desktop\git>git add code.py
```

2. Push the changes from your local repository to a remote repository on a hosting platform (e.g., GitHub).

```
C:\Windows\System32\cmd  X  +  v
(use "git add <file>..." to include in what will be committed)
  example1.txt

nothing added to commit but untracked files present (use "git add" to track)
C:\Users\user\Desktop\git>git remote add origin https://github.com/Monika-sri/git.git

C:\Users\user\Desktop\git>git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    example1.txt

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

C:\Users\user\Desktop\git>git push -u origin master
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/Monika-sri/git.git/'

C:\Users\user\Desktop\git>git push -u origin branch
error: src refspec branch does not match any
error: failed to push some refs to 'https://github.com/Monika-sri/git.git'

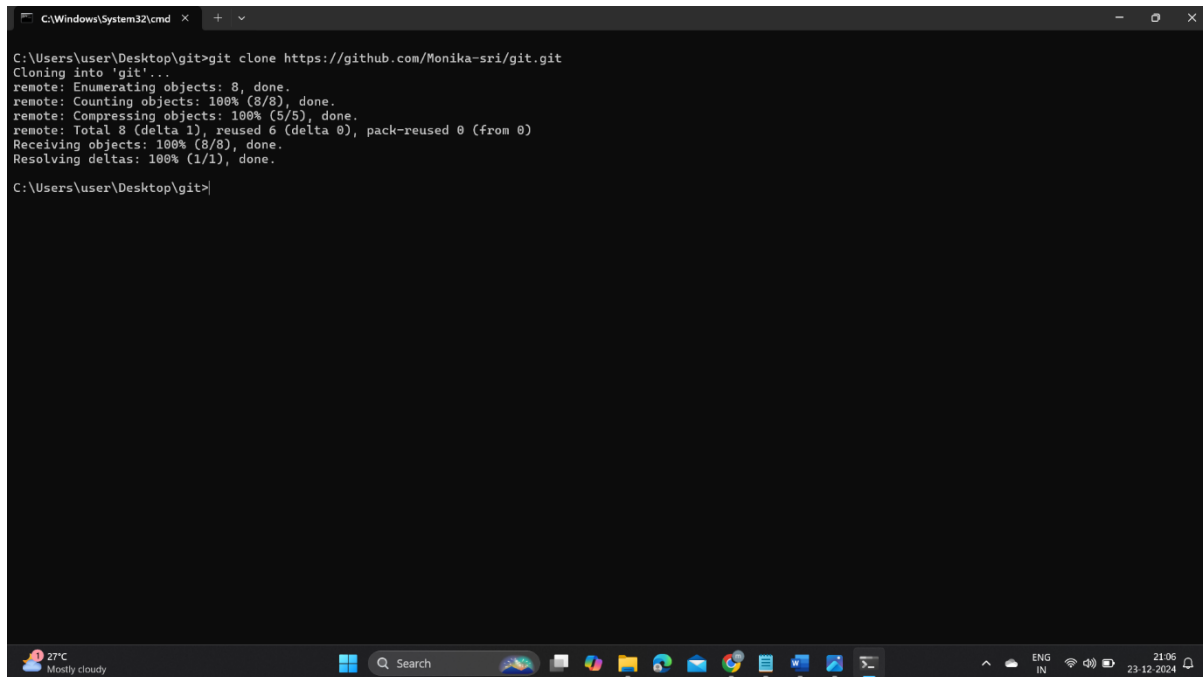
C:\Users\user\Desktop\git>git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/Monika-sri/git.git'

C:\Users\user\Desktop\git>git branch
* master

C:\Users\user\Desktop\git>git push -u origin master
info: please complete authentication in your browser...
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% (4/4), 311 bytes | 103.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Monika-sri/git.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

C:\Users\user\Desktop\git>
```

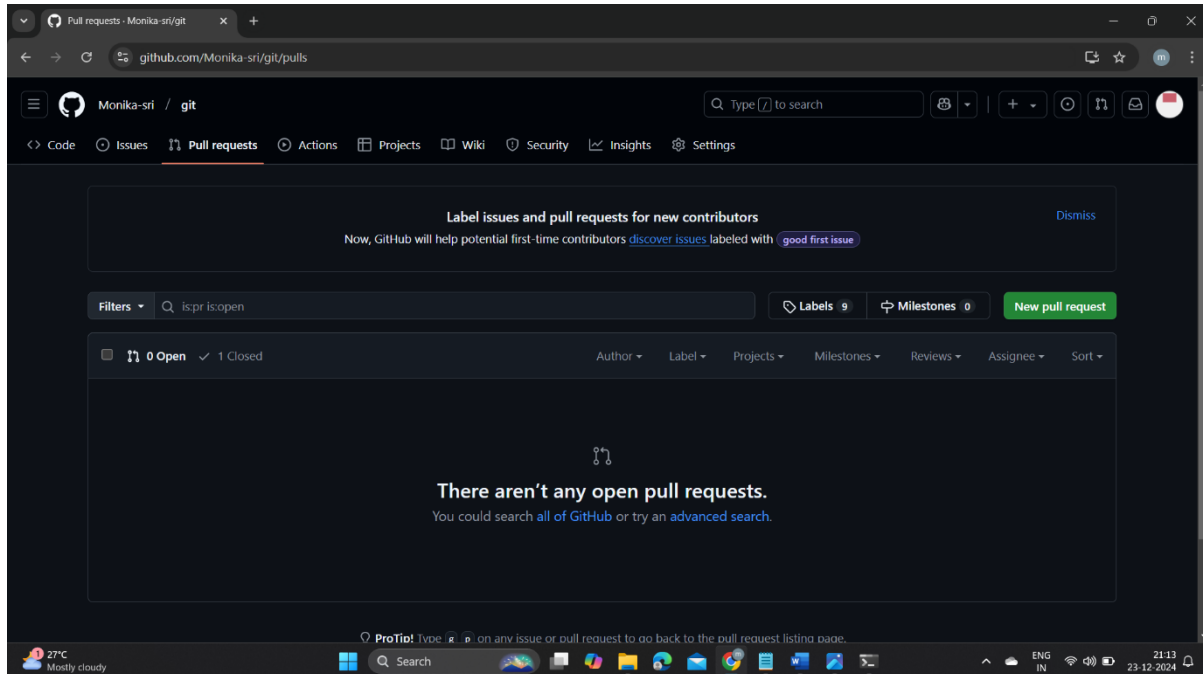
3. Clone an existing repository from a remote source to your local machine.



```
C:\Windows\System32\cmd
C:\Users\user\Desktop\git>git clone https://github.com/Monika-sri/git.git
Cloning into 'git'...
remote: Enumerating objects: 8, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 8 (delta 1), reused 6 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (8/8), done.
Resolving deltas: 100% (1/1), done.
C:\Users\user\Desktop\git>
```

The screenshot shows a Windows Command Prompt window with the title bar "C:\Windows\System32\cmd". The command prompt displays the output of the command `git clone https://github.com/Monika-sri/git.git`. The output shows the cloning process: "Cloning into 'git'...", "remote: Enumerating objects: 8, done.", "remote: Counting objects: 100% (8/8), done.", "remote: Compressing objects: 100% (5/5), done.", "remote: Total 8 (delta 1), reused 6 (delta 0), pack-reused 0 (from 0)", "Receiving objects: 100% (8/8), done.", and "Resolving deltas: 100% (1/1), done.". The prompt then shows the current directory as `C:\Users\user\Desktop\git>`. The Windows taskbar is visible at the bottom, showing the Start button, Search bar, and various application icons. The system tray on the right shows the date and time as 23-12-2024, 21:06.

4. Fork a repository on GitHub, make changes, and submit a pull request.



5. Perform a basic merge operation, resolving any conflicts that arise.

```
C:\Windows\System32\cmd
C:\Users\user\Desktop\git>git push
fatal: The current branch copy1 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin copy1

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

C:\Users\user\Desktop\git>git push --set-upstream origin copy1
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), 314 bytes | 314.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'copy1' on GitHub by visiting:
remote:   https://github.com/Monika-sri/git/pull/new/copy1
remote:
To https://github.com/Monika-sri/git.git
 * [new branch]      copy1 -> copy1
branch 'copy1' set up to track 'origin/copy1'.

C:\Users\user\Desktop\git>git branch
* copy1
  master

C:\Users\user\Desktop\git>
```