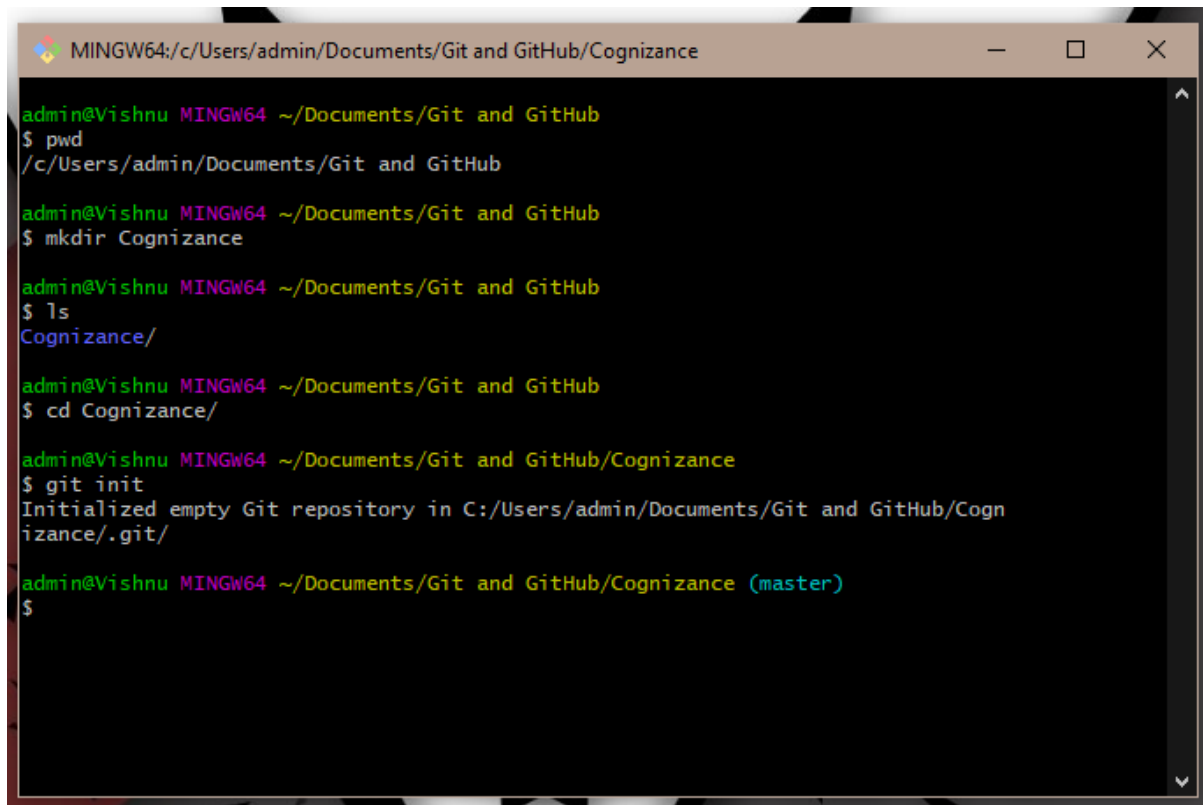


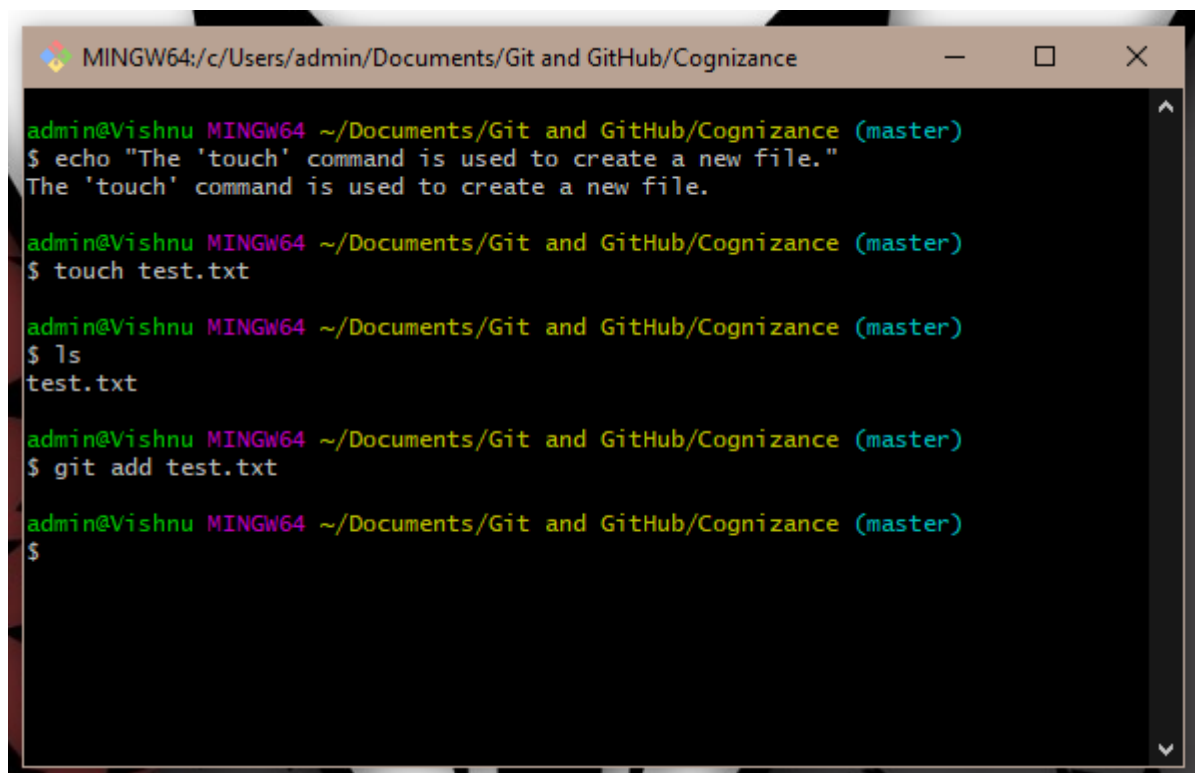
1. Creating a local repository:



```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub
$ pwd
/c/Users/admin/Documents/Git and GitHub
admin@Vishnu MINGW64 ~/Documents/Git and GitHub
$ mkdir Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub
$ ls
Cognizance/
admin@Vishnu MINGW64 ~/Documents/Git and GitHub
$ cd Cognizance/
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance
$ git init
Initialized empty Git repository in C:/Users/admin/Documents/Git and GitHub/Cognizance/.git/
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$
```

2. git add:

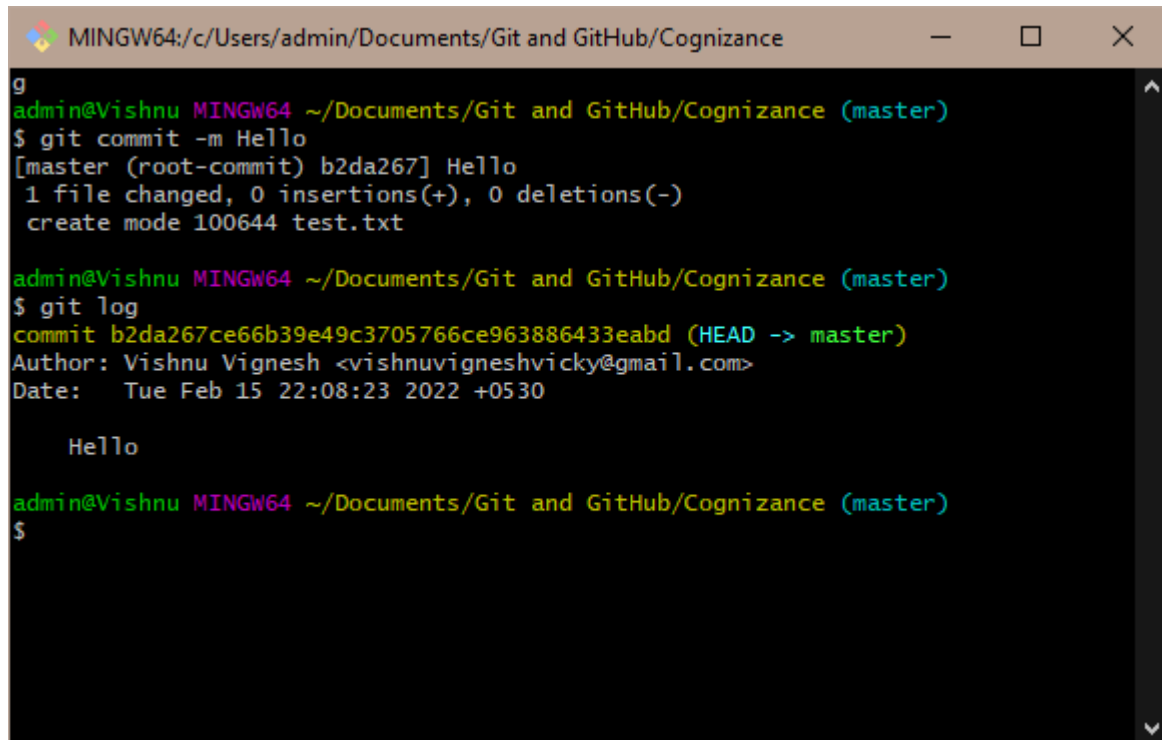
Adds the file to the stage.



```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ echo "The 'touch' command is used to create a new file."
The 'touch' command is used to create a new file.
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ touch test.txt
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ ls
test.txt
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ git add test.txt
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$
```

3. git commit:

Puts the staged file on local branch.

A terminal window titled 'MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance' with standard window controls. The terminal shows a user 'admin@Vishnu' in a 'MINGW64' environment at the directory '~/Documents/Git and GitHub/Cognizance' on the 'master' branch. The user runs '\$ git commit -m Hello', which results in a commit with hash 'b2da267'. The output shows '1 file changed, 0 insertions(+), 0 deletions(-)' and 'create mode 100644 test.txt'. Then, the user runs '\$ git log', which displays the commit details: 'commit b2da267ce66b39e49c3705766ce963886433eabd (HEAD -> master)', 'Author: Vishnu Vignesh <vishnuvigneshvicky@gmail.com>', 'Date: Tue Feb 15 22:08:23 2022 +0530', and the commit message 'Hello'. The prompt '\$' is shown at the bottom.

```
g
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ git commit -m Hello
[master (root-commit) b2da267] Hello
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt

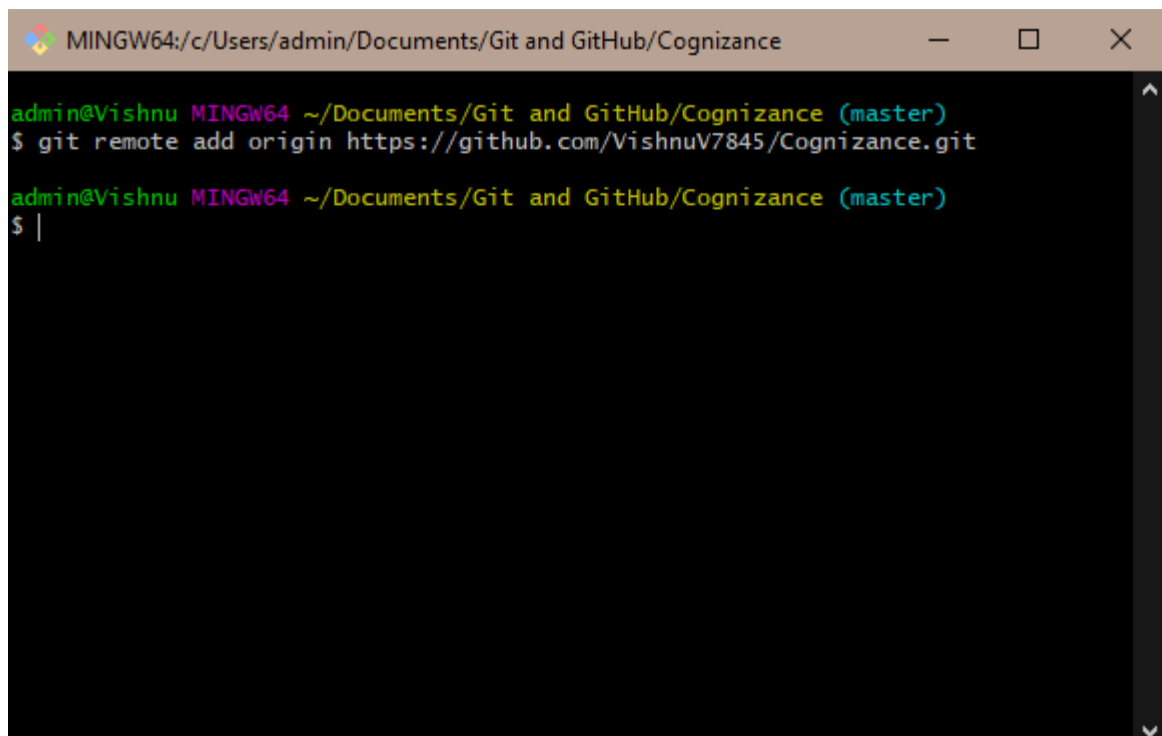
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ git log
commit b2da267ce66b39e49c3705766ce963886433eabd (HEAD -> master)
Author: Vishnu Vignesh <vishnuvigneshvicky@gmail.com>
Date: Tue Feb 15 22:08:23 2022 +0530

    Hello

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$
```

“git log” is used to see a history of all the commits made.

4. git remote:

A terminal window titled 'MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance' with standard window controls. The terminal shows a user 'admin@Vishnu' in a 'MINGW64' environment at the directory '~/Documents/Git and GitHub/Cognizance' on the 'master' branch. The user runs '\$ git remote add origin https://github.com/VishnuV7845/Cognizance.git'. The prompt '\$' is shown at the bottom.

```
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ git remote add origin https://github.com/VishnuV7845/Cognizance.git

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ |
```

5. git branch:

A pointer to a snapshot of your changes.

```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (master)
$ git branch -M main

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ |
```

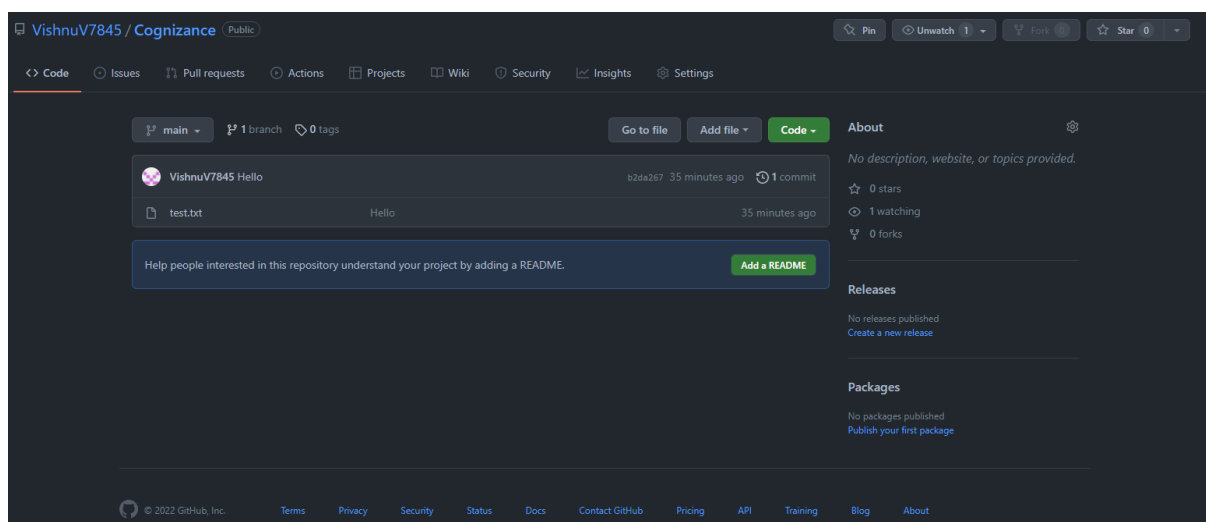
6. git push:

Upload local repository content to a remote repository.

```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git branch -M main

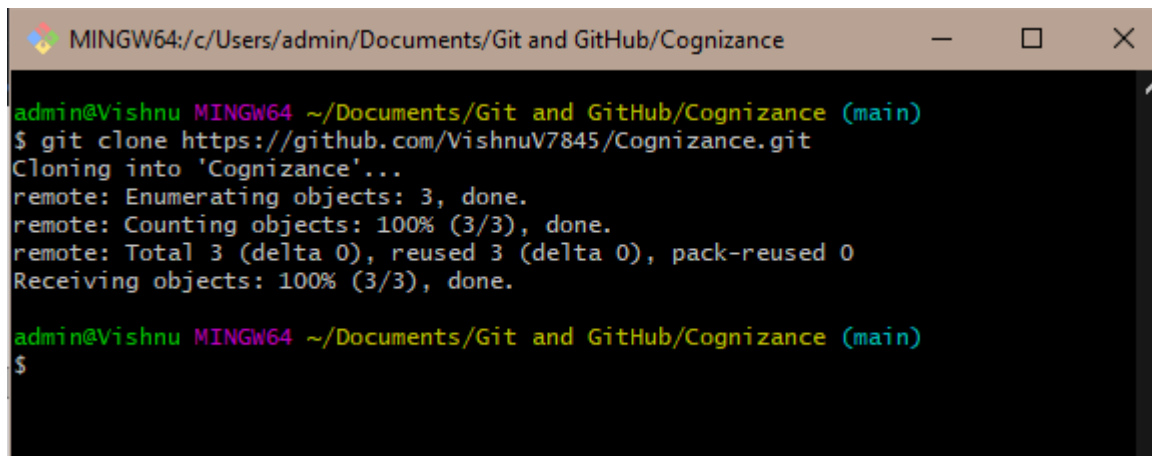
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 216 bytes | 216.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/VishnuV7845/Cognizance.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ |
```



git clone:

Clones a repository.

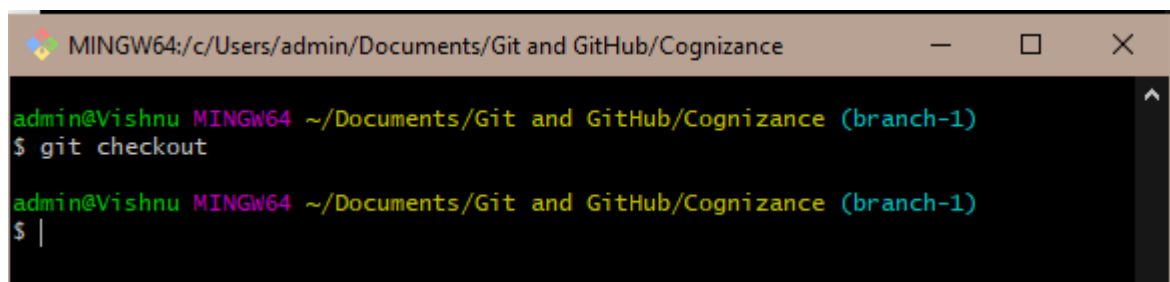


```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git clone https://github.com/VishnuV7845/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$
```

7. git checkout:

Replaces all files.

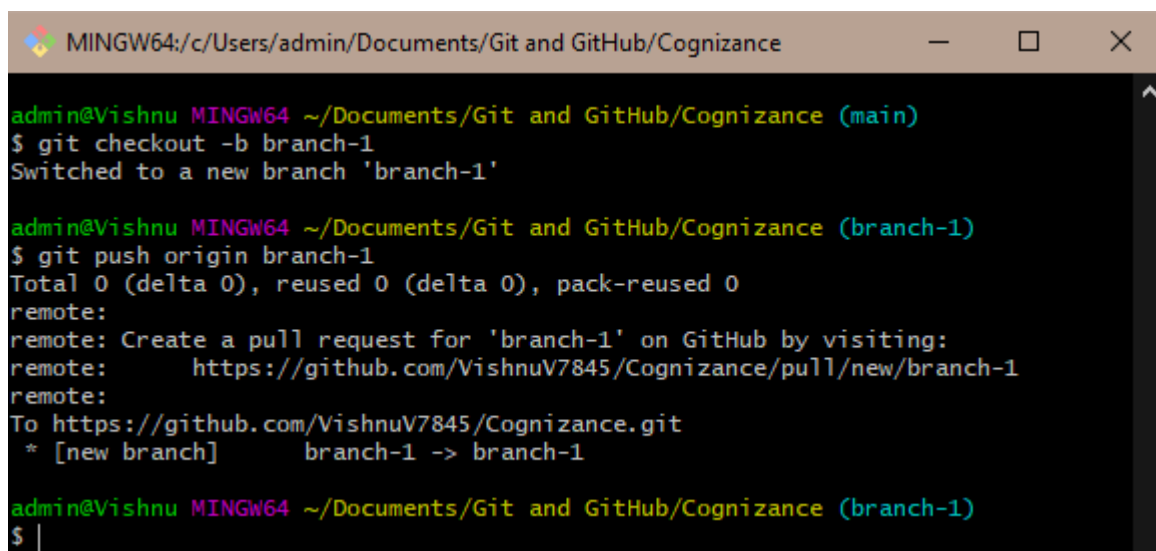


```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (branch-1)
$ git checkout

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (branch-1)
$ |
```

8. git checkout -b

Creates a new branch from the end of a branch.



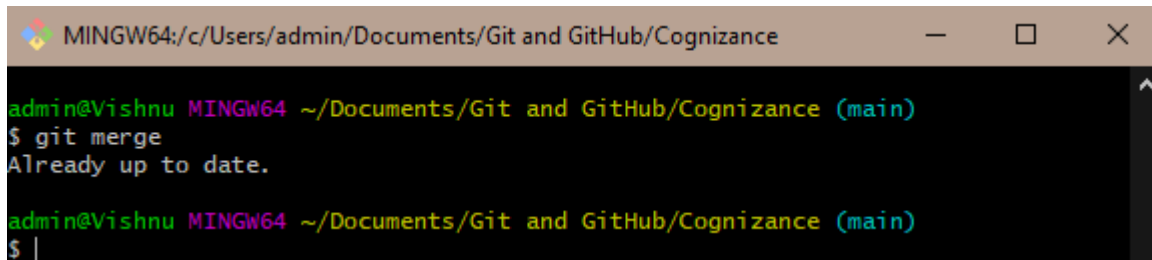
```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git checkout -b branch-1
Switched to a new branch 'branch-1'

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (branch-1)
$ git push origin branch-1
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch-1' on GitHub by visiting:
remote:   https://github.com/VishnuV7845/Cognizance/pull/new/branch-1
remote:
To https://github.com/VishnuV7845/Cognizance.git
 * [new branch]      branch-1 -> branch-1

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (branch-1)
$ |
```

9. git fetch:

Download changes from the remote repository to the local repository.

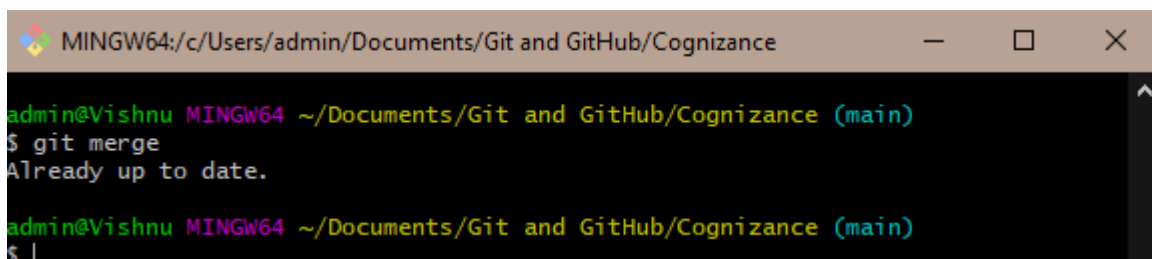
A terminal window titled 'MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance' showing the execution of 'git fetch'. The prompt is 'admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)'. The command '\$ git fetch' is entered, and the output is 'Already up to date.'.

```
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git fetch
Already up to date.

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ |
```

10. git merge:

Merge files from a branch to another.

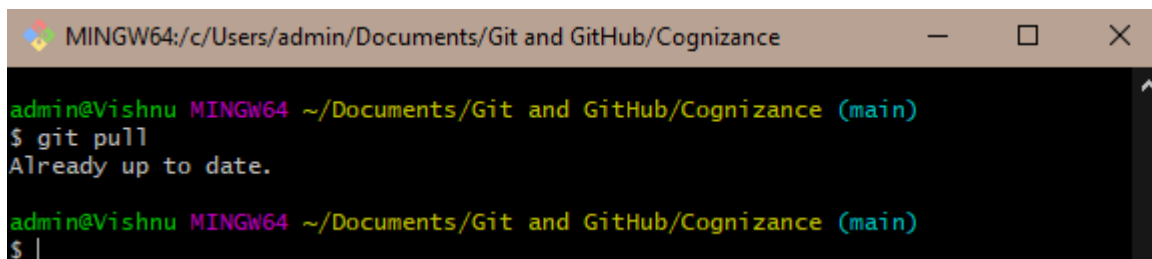
A terminal window titled 'MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance' showing the execution of 'git merge'. The prompt is 'admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)'. The command '\$ git merge' is entered, and the output is 'Already up to date.'.

```
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git merge
Already up to date.

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ |
```

11. git pull:

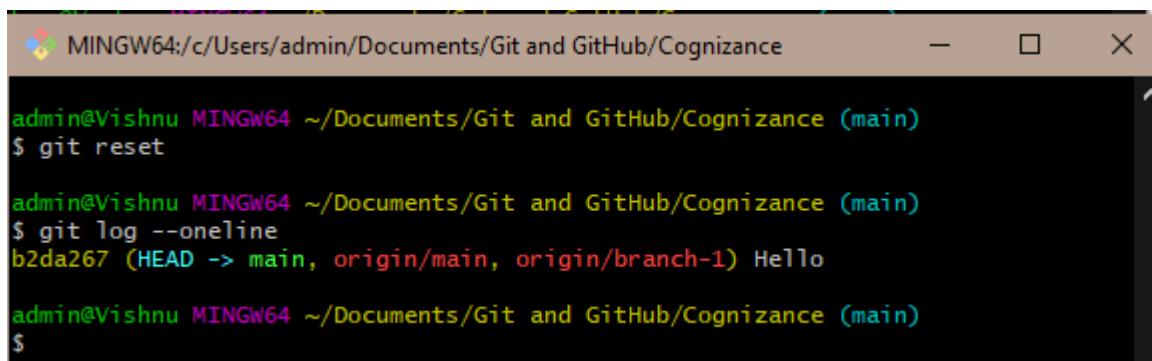
Fetches changes from the remote repository and merges them.

A terminal window titled 'MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance' showing the execution of 'git pull'. The prompt is 'admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)'. The command '\$ git pull' is entered, and the output is 'Already up to date.'.

```
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git pull
Already up to date.

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ |
```

12. git reset:

A terminal window titled 'MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance' showing the execution of 'git reset' and 'git log --oneline'. The prompt is 'admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)'. The command '\$ git reset' is entered. Then, the command '\$ git log --oneline' is entered, and the output is 'b2da267 (HEAD -> main, origin/main, origin/branch-1) Hello'.

```
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git reset

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git log --oneline
b2da267 (HEAD -> main, origin/main, origin/branch-1) Hello

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$
```

13. git rebase:

```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git rebase
Current branch main is up to date.

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$
```

14. git status:

Display current status.

```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  Cognizance/

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

admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$
```

15. git config --list --show-origin

```
MINGW64:/c/Users/admin/Documents/Git and GitHub/Cognizance
admin@Vishnu MINGW64 ~/Documents/Git and GitHub/Cognizance (main)
$ git config --list --show-origin
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttpath=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/admin/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/admin/.gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Users/admin/.gitconfig filter.lfs.required=true
file:C:/Users/admin/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/admin/.gitconfig user.name=Vishnu Vignesh
file:C:/Users/admin/.gitconfig user.email=vishnuvigneshvicky@gmail.com
...skipping...
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttpath=true
```