

# TASK-1

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# Creating repository named cognizance and folder named task-1

SahasraReddy22/Cognizance

TASK 1 [GIT & GITHUB]

+

github.com/SahasraReddy22/Cognizance

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About

SahasraReddy22 Merge pull request #1 from SahasraReddy11/patch-1

859abab 12 minutes ago 8 commits

README.md Initial commit 6 hours ago

file1.txt added 2 words 4 hours ago

task1.txt edited by Sahasra11 15 minutes ago

README.md

Cognizance

Releases

No releases published

Create a new release

Packages

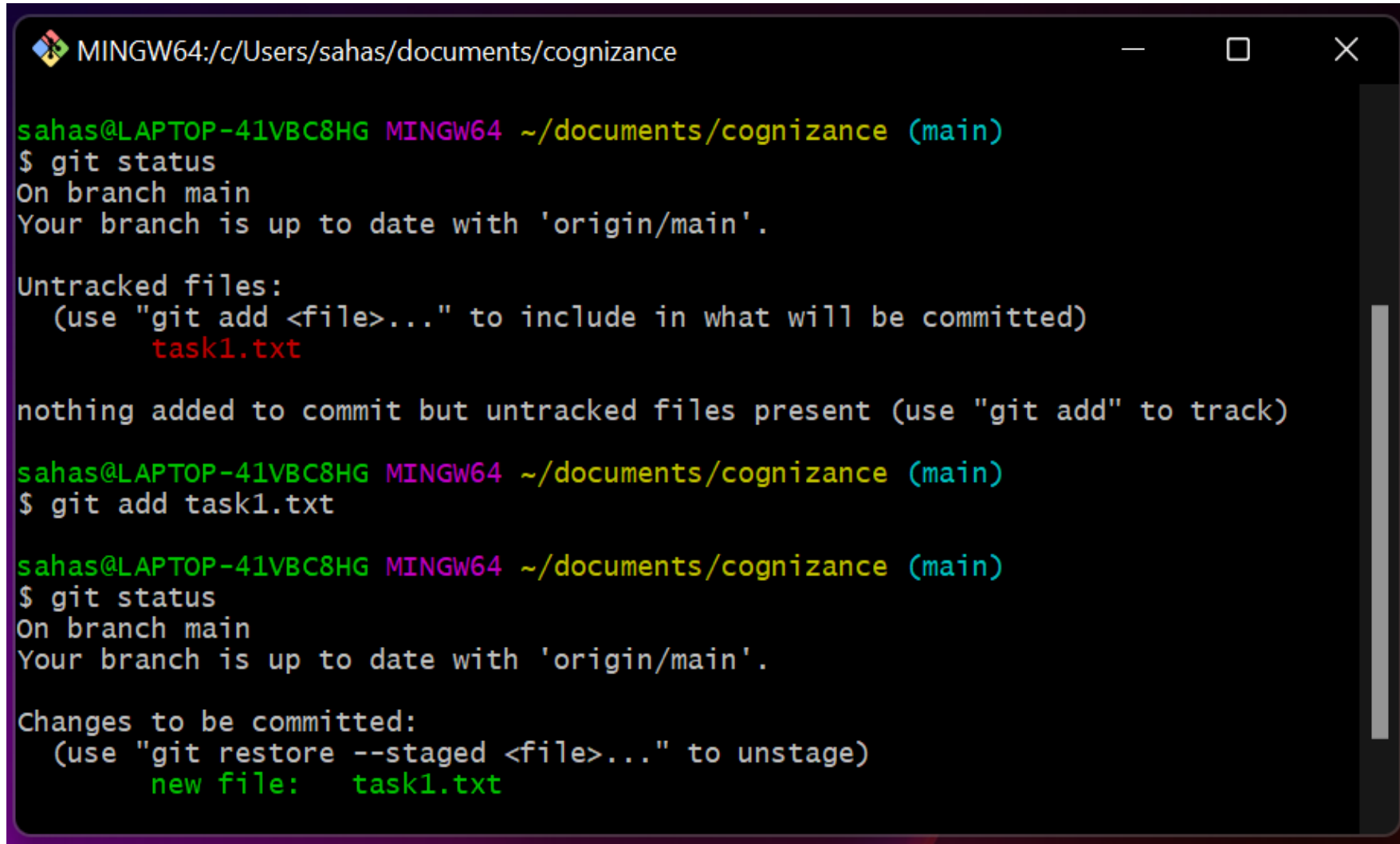
No packages published

Publish your first package

Windows Taskbar

19:21 14-02-2022

# Git add: Puts current working files into the stage.

A terminal window with a dark background and a purple title bar. The title bar text is 'MINGW64:/c/Users/sahas/documents/cognizance'. The terminal shows the output of 'git status' and 'git add task1.txt' commands. The prompt is 'sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)'.

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/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)
       task1.txt

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

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git add task1.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       new file:   task1.txt
```

Git checkout: Replaces the current working files with files from a branch

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (1stbranch)
$ git checkout main
Switched to branch 'main'
A       task1.txt
Your branch is up to date with 'origin/main'.

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git push origin 1stbranch
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for '1stbranch' on GitHub by visiting:
remote:   https://github.com/SahasraReddy22/Cognizance/pull/new/1stbranch
remote:
To https://github.com/SahasraReddy22/Cognizance.git
 * [new branch]      1stbranch -> 1stbranch

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git branch
 1stbranch
* main

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$
```

Git Checkout-b :Creates a new local branch from the current branch's tip.

```
MINGW64:/c/Users/sahas/documents/cognizance
(use "git add <file>..." to include in what will be committed)
task1.txt

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

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git add task1.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   task1.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git checkout -b 1stbranch
Switched to a new branch '1stbranch'

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (1stbranch)
$
```

Git clone: Clone an existing repository into a new directory.

```
MINGW64:/c/Users/sahas/documents
Templates@
Videos/
'VirtualBox VMs'/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

sahas@LAPTOP-41VBC8HG MINGW64 ~
$ cd documents

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents
$ git clone https://github.com/SahasraReddy22/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

Git commit:Commits staged changes to a local branch.

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git branch
 1stbranch
* main

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   task1.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git commit
[main ba7e662] new file commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 task1.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$
```

Git commit -a:Commits all modified files to a local branch(shorthand for “git add” followed by “git commit” for each modified file).

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 7 and 5 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file1.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file3.txt

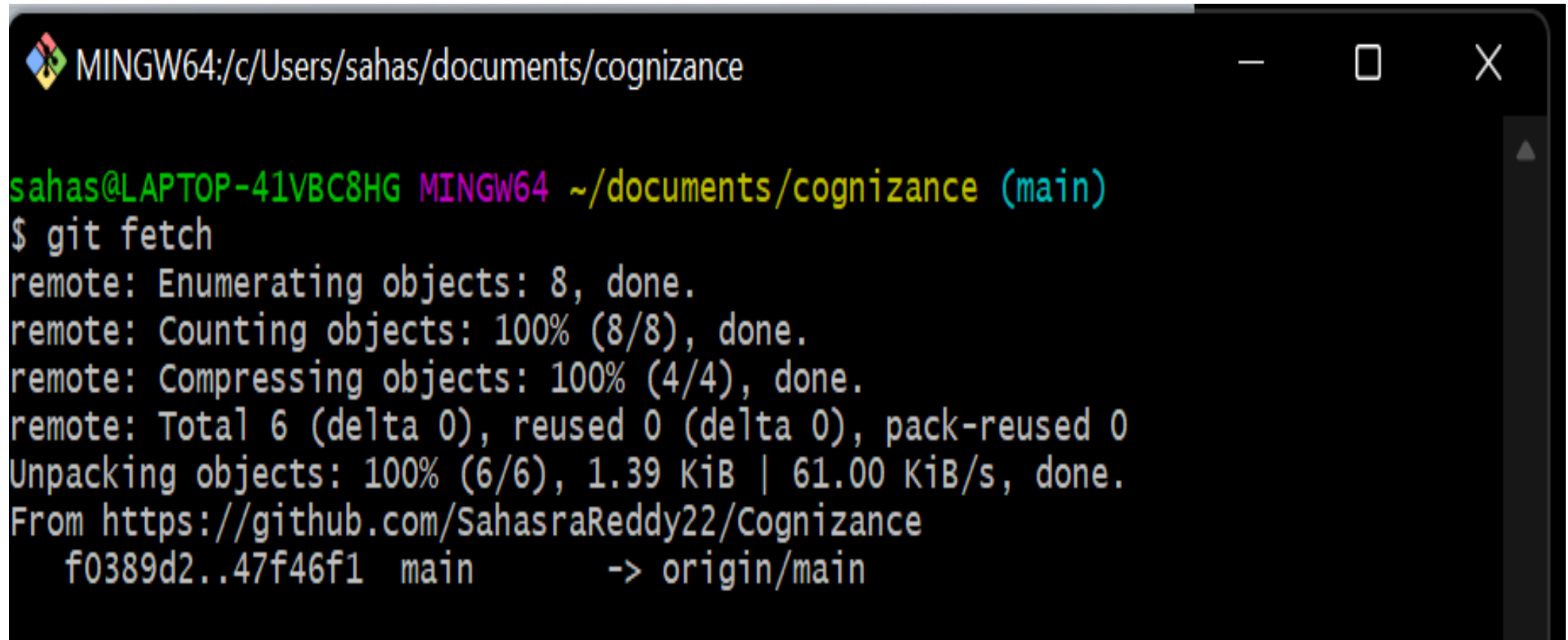
no changes added to commit (use "git add" and/or "git commit -a")

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git commit -a
[main 2ef8690] this is 1st commit-a
 1 file changed, 1 insertion(+)

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ |
```



Git fetch:Downloads changes from a remote repository into the local clone.

A screenshot of a Windows terminal window with a dark background. The title bar at the top shows the MinGW64 logo and the path 'MINGW64:/c/Users/sahas/documents/cognizance'. The terminal content shows a user prompt 'sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)' followed by the command '\$ git fetch'. The output of the command is displayed in several lines, showing the progress of fetching objects from a remote repository. The output includes: 'remote: Enumerating objects: 8, done.', 'remote: Counting objects: 100% (8/8), done.', 'remote: Compressing objects: 100% (4/4), done.', 'remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0', 'Unpacking objects: 100% (6/6), 1.39 KiB | 61.00 KiB/s, done.', 'From https://github.com/SahasraReddy22/Cognizance', and 'f0389d2..47f46f1 main -> origin/main'.

```
MINGW64:/c/Users/sahas/documents/cognizance

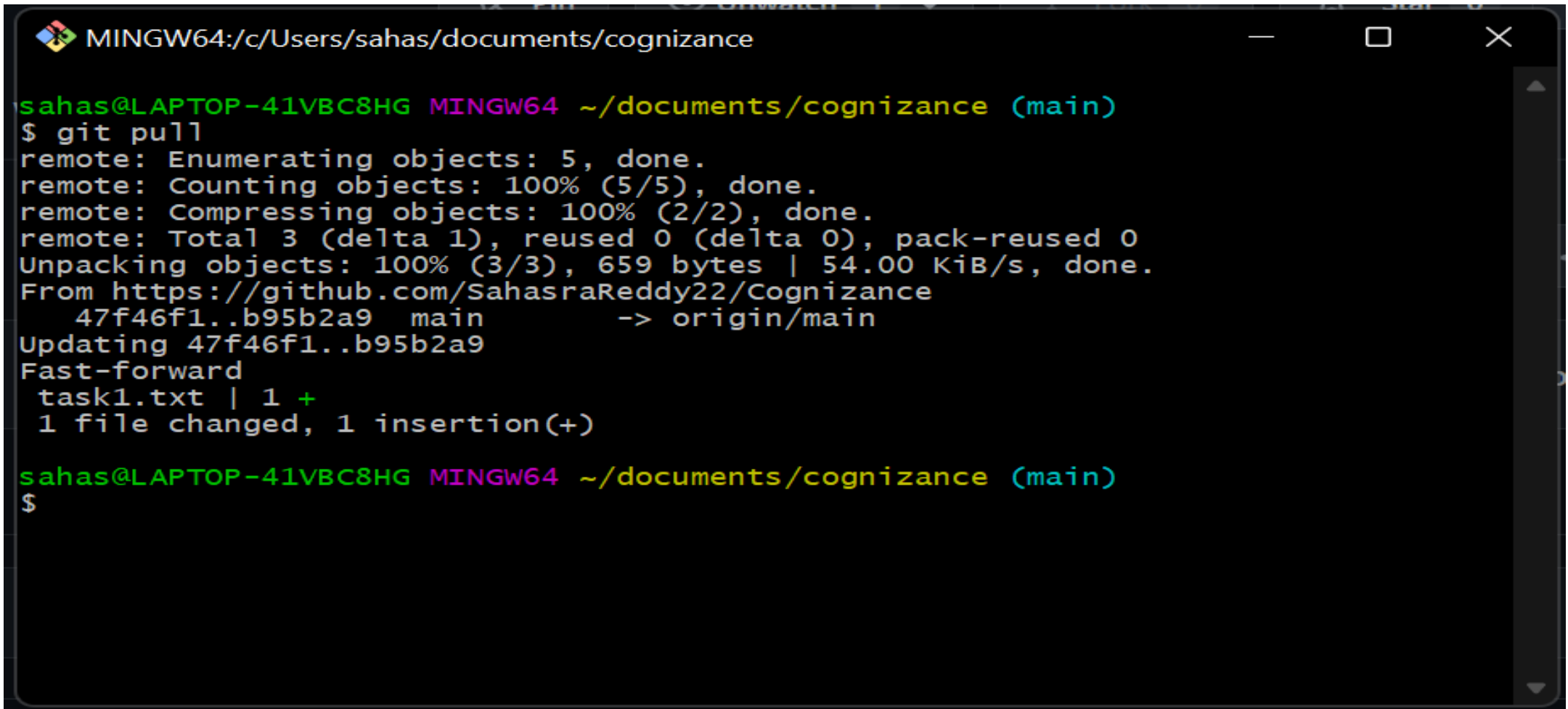
sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git fetch
remote: Enumerating objects: 8, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (6/6), 1.39 KiB | 61.00 KiB/s, done.
From https://github.com/SahasraReddy22/Cognizance
f0389d2..47f46f1  main      -> origin/main
```

Git merge: Merges files from a given branch into the current branch

```
sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git merge
Updating f0389d2..47f46f1
Fast-forward
 file1.txt | 2 ++
 1 file changed, 2 insertions(+)

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ |
```

Git pull: Fetches remote changes on the current branch into the local clone, and merges them into the current working files.

A screenshot of a Windows terminal window with a dark background. The title bar at the top shows the MINGW64 logo and the path 'MINGW64:/c/Users/sahas/documents/cognizance'. The terminal text shows a user named 'sahas' at 'LAPTOP-41VBC8HG' running 'git pull' in the directory '~/documents/cognizance' on the 'main' branch. The output shows the process of fetching and merging changes from the remote repository 'https://github.com/SahasraReddy22/Cognizance', specifically updating the 'main' branch to '47f46f1..b95b2a9'. It indicates a fast-forward merge where 'task1.txt' was updated with 1 insertion. The prompt returns to '\$' after the command is complete.

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 659 bytes | 54.00 KiB/s, done.
From https://github.com/SahasraReddy22/Cognizance
  47f46f1..b95b2a9  main      -> origin/main
Updating 47f46f1..b95b2a9
Fast-forward
 task1.txt | 1 +
 1 file changed, 1 insertion(+)

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$
```

# Git Push: Uploads changes from all local branches to the respective remote repositories

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (1stbranch)
$ git checkout main
Switched to branch 'main'
A       task1.txt
Your branch is up to date with 'origin/main'.

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git push origin 1stbranch
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for '1stbranch' on GitHub by visiting:
remote:   https://github.com/SahasraReddy22/Cognizance/pull/new/1stbranch
remote:
To https://github.com/SahasraReddy22/Cognizance.git
 * [new branch]      1stbranch -> 1stbranch

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git branch
 1stbranch
* main

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$
```

## Git Reset : Makes the current branch point to some specific revision or branch

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ vi file1.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ vi file2.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file2.txt

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   file1.txt
    modified:   file2.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git add *
warning: LF will be replaced by CRLF in file2.txt.
The file will have its original line endings in your working directory

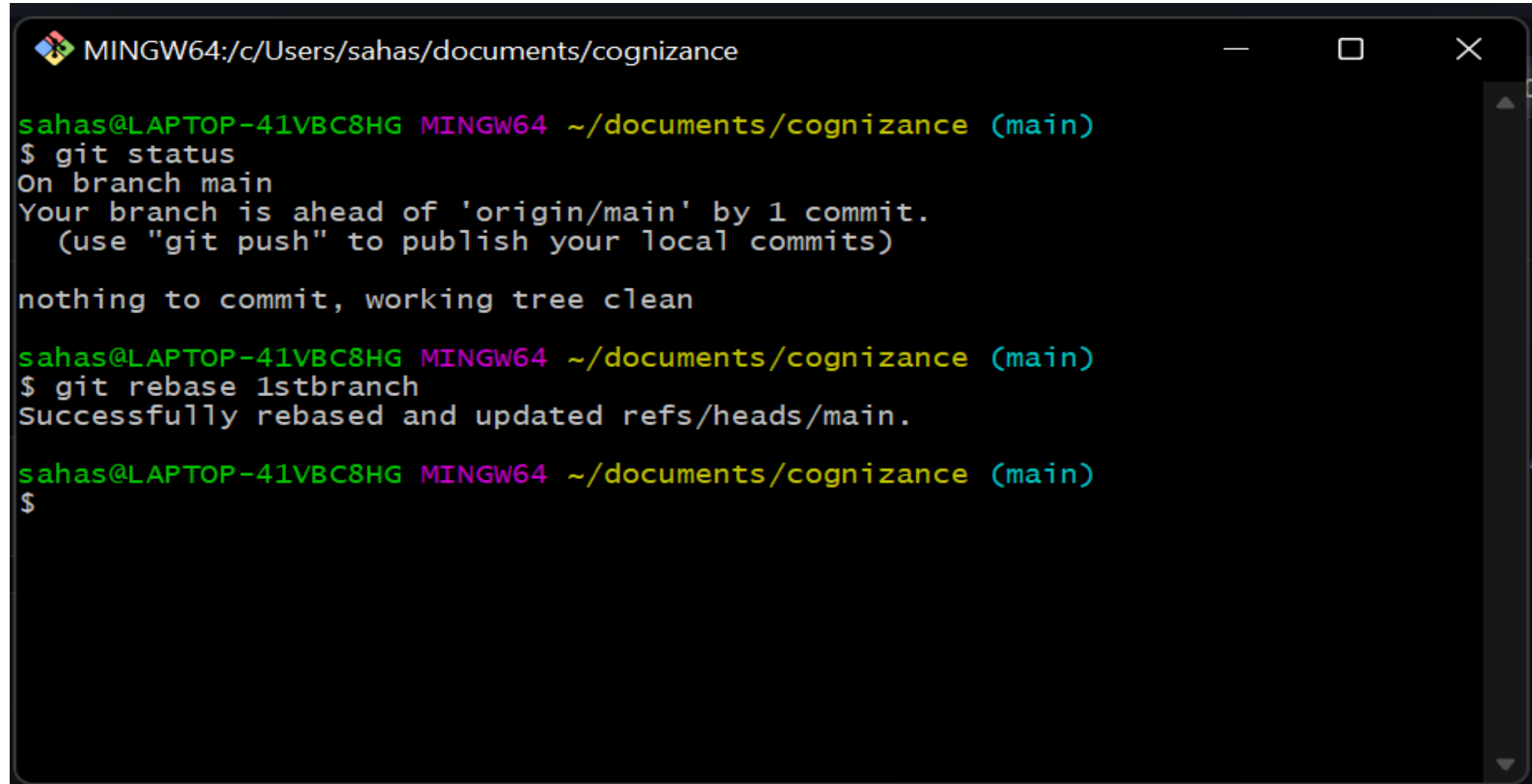
sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ gitstatus
bash: gitstatus: command not found

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   file1.txt
    new file:   file2.txt

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git reset HEAD file1.txt
Unstaged changes after reset:
M   file1.txt
```

Git rebase : Integrates changes from one branch into another. It is an alternative to the better known “merge” command.

A screenshot of a Windows terminal window with a dark background. The title bar at the top shows the MINGW64 logo and the path 'MINGW64:/c/Users/sahas/documents/cognizance'. The terminal displays the output of 'git status' and the execution of 'git rebase 1stbranch'.

```
MINGW64:/c/Users/sahas/documents/cognizance

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$ git rebase 1stbranch
Successfully rebased and updated refs/heads/main.

sahas@LAPTOP-41VBC8HG MINGW64 ~/documents/cognizance (main)
$
```

Git Fork : Fork will create a copy of the repository in your GitHub account so that you can make changes to the project.

Here I edited the file from SahasraReddy11 account by using fork into the account SahasraReddy22

The screenshot displays the GitHub web interface. At the top, the navigation bar includes the GitHub logo, a search bar, and links for Pull requests, Issues, Marketplace, and Explore. The user profile icon is in the top right. Below the navigation bar, the repository path is 'SahasraReddy22 / Cognizance' with a 'Public' badge. To the right are buttons for Watch (1), Fork (1), and Star (0). A secondary navigation bar contains links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, and Insights. A blue informational box states: 'You're making changes in a project you don't have write access to. We've created a fork of this project for you to commit your proposed changes to. Submitting a change will write it to a new branch in your fork, so you can send a pull request.' Below this, the file path 'Cognizance / task1.txt' is shown, along with 'in SahasraReddy22:main' and a 'Cancel changes' button. The editor interface at the bottom has tabs for 'Edit file' and 'Preview changes'. On the right of the editor are settings for 'Spaces' (set to 2), 'Soft wrap', and a line number indicator. The code content shows two lines: '1 this is an edited file....' and '2 this is edited through another github account to original github account|'.

Search or jump to... / Pull requests Issues Marketplace Explore

SahasraReddy22 / Cognizance Public

Watch 1 Fork 1 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights

You're making changes in a project you don't have write access to. We've created a fork of this project for you to commit your proposed changes to. Submitting a change will write it to a new branch in your fork, so you can send a pull request.

Cognizance / task1.txt in SahasraReddy22:main Cancel changes

<> Edit file Preview changes Spaces 2 Soft wrap

```
1 this is an edited file....
2 this is edited through another github account to original github account|
```

github.com/SahasraReddy22/Cognizance/pull/1

S

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SahasraReddy22 / Cognizance

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Watch 1

Fork 1

Star 0

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edited by Sahasra11 #1

Edit

<> Code

Open

SahasraReddy11 wants to merge 1 commit into SahasraReddy22:main from SahasraReddy11:patch-1

Conversation 0

Commits 1

Checks 0

Files changed 1

+1 -0

SahasraReddy11 commented now

No description provided.

edited by Sahasra11

Verified74c2509

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one assigned



# Git config --list --show-

```
MINGW64:/

sahas@LAPTOP-41VBC8HG MINGW64 /
$ 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-proces
s
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/ming
w64/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.usehttp
path=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/sahas/.gitconfig user.name=SahasraReddy22
file:C:/Users/sahas/.gitconfig user.email=ch.en.u4cys21037@ch.students.amrita.e
du

sahas@LAPTOP-41VBC8HG MINGW64 /
$
```