

### GitHub commands

```
C:\Users\ADMIN>echo "# Cognizance" >> README.md
C:\Users\ADMIN>git init
Reinitialized existing Git repository in C:/Users/ADMIN/.git/
C:\Users\ADMIN>git add README.md
C:\Users\ADMIN>git commit -m "first commit"
[main 8307d48] first commit
 1 file changed, 1 insertion(+)
C:\Users\ADMIN>git branch -M main
C:\Users\ADMIN>git remote add origin https://github.com/rgsivaraman/Cognizance.git
error: remote origin already exists.

C:\Users\ADMIN>git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (9/9), 677 bytes | 338.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rgsivaraman/Cognizance.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

### Clone

```
PS C:\Users\ADMIN\documents\git> git clone https://github.com/rgsivaraman/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 13, done.
remote: Counting objects: 100% (13/13), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 13 (delta 0), reused 9 (delta 0), pack-reused 0
Receiving objects: 100% (13/13), done.
PS C:\Users\ADMIN\documents\git>
```

```
PS C:\Users\ADMIN> cd documents
PS C:\Users\ADMIN\documents> cd Cognizance
PS C:\Users\ADMIN\documents\Cognizance> cd Task-1
PS C:\Users\ADMIN\documents\Cognizance\Task-1> ls

Directory: C:\Users\ADMIN\documents\Cognizance\Task-1

Mode                LastWriteTime         Length Name
----                -----          36 test.txt
-a---- 15-02-2022    12:10
```

Add command

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> "test.txt"
test.txt
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git status
On branch main
Your branch is up to date with 'origin/main'.

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:   test.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git add test.txt
PS C:\Users\ADMIN\documents\Cognizance\Task-1> 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:   test.txt
```

Fruits

Bananas  
Apples  
Oranges

5 lines (4 sloc) | 31 Bytes

Raw Blame

```
1 Fruits
2
3 Bananas
4 Apples
5 Oranges
```

Commit

```
ADDITIONAL COMMIT DUE TO EMPTY COMMIT MESSAGE.
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git commit test.txt
```

```
# used commit option
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       modified:   test.txt
#
~
```

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git log
commit 7a86afe18522855fc1b557d8d5de2b8a5113ad18 (HEAD -> main, origin/main, origin/HEAD)
Author: rgsvaraman <99677088+rgsvaraman@users.noreply.github.com>
Date:   Tue Feb 15 12:06:25 2022 +0530

    Adding fruits list

commit 8307d48936c2eebfff1795c306d45bc1d10171d3
Author: rgsvaraman <rgsvaraman@gmail.com>
Date:   Tue Feb 15 09:24:30 2022 +0530

    first commit

commit 341a871aae52f52210ee088c3f863b8b33aa2e68
Author: rgsvaraman <rgsvaraman@gmail.com>
Date:   Tue Feb 15 09:24:01 2022 +0530

    first commit

commit cc12b42a8211988ebffed5d4849ad9615524bb64
Author: rgsvaraman <rgsvaraman@gmail.com>
Date:   Tue Feb 15 09:23:34 2022 +0530

    first commit
PS C:\Users\ADMIN\documents\Cognizance\Task-1>
```

Git commit –a

```
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#       modified:   test.txt
#
~
```

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git commit -a
```

Commit

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git commit -m "using commit option"
[main b268c9f] using commit option
 1 file changed, 1 insertion(+)
```

## Git push

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 358 bytes | 4.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rgsivaraman/Cognizance.git
    7a86afe..b268c9f  main -> main
```

The screenshot shows a GitHub repository page for 'Cognizance / Task-1'. At the top, there's a commit history with one entry from 'rgsivaraman' adding 'Kiwis'. Below the history is a file named 'test.txt' containing the following content:

```
1 Fruits
2
3 Bananas
4 Apples
5 Oranges
6 Cherries
7 Kiwis
```

There are buttons for 'Raw', 'Blame', and other file operations.

## Git Pull

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git pull
Updating b268c9f..c73bf78
Fast-forward
  Task-1/test.txt | 3 +++
  1 file changed, 2 insertions(+), 1 deletion(-)
```

```
1 Fruits
2
3 Bananas
4 Apples
5 Oranges
6 Cherries
7 Kiwis
```

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git log
commit c73bf78ef13f1b88461b212aa0939006f1cdca15 (HEAD -> main, origin/main, origin/HEAD)
Author: rgsivaraman <99677088+rgsivaraman@users.noreply.github.com>
Date: Tue Feb 15 16:05:12 2022 +0530

    Added Kiwis

commit 716386fefb84660d3bd42bc8a8876aba2c71d4e4
Author: rgsivaraman <99677088+rgsivaraman@users.noreply.github.com>
Date: Tue Feb 15 15:46:57 2022 +0530

    Added Mangoes

commit b268c9f36938b9ae4af33c96f71c4a9a783fba71
Author: rgsivaraman <rgsivaraman8@gmail.com>
Date: Tue Feb 15 15:28:04 2022 +0530

    using commit option

commit 7a86afe18522855fc1b557d8d5de2b8a5113ad18
Author: rgsivaraman <99677088+rgsivaraman@users.noreply.github.com>
Date: Tue Feb 15 12:06:25 2022 +0530

    Adding fruits list

commit 8307d48936c2eebfff1795c306d45bc1d10171d3
Author: rgsivaraman <rgsivaraman8@gmail.com>
Date: Tue Feb 15 09:24:30 2022 +0530
```

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git reset 716386fefb84660d3bd42bc8a8876aba2c71d4e4
Unstaged changes after reset:
M     Task-1/test.txt
```

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git log
commit 716386fefb84660d3bd42bc8a8876aba2c71d4e4 (HEAD -> main)
Author: rgsivaraman <99677088+rgsivaraman@users.noreply.github.com>
Date: Tue Feb 15 15:46:57 2022 +0530

    Added Mangoes

commit b268c9f36938b9ae4af33c96f71c4a9a783fba71
Author: rgsivaraman <rgsivaraman8@gmail.com>
Date: Tue Feb 15 15:28:04 2022 +0530

    using commit option

commit 7a86afe18522855fc1b557d8d5de2b8a5113ad18
Author: rgsivaraman <99677088+rgsivaraman@users.noreply.github.com>
Date: Tue Feb 15 12:06:25 2022 +0530

    Adding fruits list

commit 8307d48936c2eebfff1795c306d45bc1d10171d3
Author: rgsivaraman <rgsivaraman8@gmail.com>
Date: Tue Feb 15 09:24:30 2022 +0530
```

Git checkout -b

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git checkout -b "newbranch"
Switched to a new branch 'newbranch'
```

Git checkout

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
  (use "git pull" to update your local branch)
```

Git merge

```
Fruits

Bananas
Apples
Oranges
Cherries
Kiwis
```

```
SWITCHED TO BRANCH 'newbranch'
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git merge newbranch
Already up to date.
```

```
Fruits

Banana
Apple
Oranges
Cherries
Kiwis
```

Git rebase

```
Fruits

Banana
Apple
Oranges
Cherries
Kiwis
```

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git rebase newbranch
Current branch newbranch is up to date.
```

## Git fetch

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git fetch https://github.com/rgsivaraman/Cognizance
From https://github.com/rgsivaraman/Cognizance
 * branch            HEAD      -> FETCH_HEAD
```

## Forking a repository

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git fork https://github.com/rgsivaraman/Cognizance
git: 'fork' is not a git command. See 'git --help'.

The most similar command is
  fsck
PS C:\Users\ADMIN\documents\Cognizance\Task-1> git clone https://github.com/rgsivaraman/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 25, done.
remote: Counting objects: 100% (25/25), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 25 (delta 0), reused 13 (delta 0), pack-reused 0
Receiving objects: 100% (25/25), done.
PS C:\Users\ADMIN\documents\Cognizance\Task-1> ■
```

## git config --list --show-origin

```
PS C:\Users\ADMIN\documents\Cognizance\Task-1> 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.usehttppath=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/ADMIN/.gitconfig filter.lfs.clean=git-lfs clean -- %f
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 user.name=rgsivaraman
file:C:/Users/ADMIN/.gitconfig user.email=rgsivaraman8@gmail.com
file:.git/config      core.repositoryformatversion=0
file:.git/config      core.filemode=false
file:.git/config      core.bare=false
file:.git/config      core.logallrefupdates=true
file:.git/config      core.symlinks=false
file:.git/config      core.ignorecase=true
file:.git/config      remote.origin.url=https://github.com/rgsivaraman/Cognizance.git
file:.git/config      remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:.git/config      branch.main.remote=origin
file:.git/config      branch.main.merge=refs/heads/main
```