

Git Bash Commands

To configure git – git config

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~  
$ git config --global user.name "AaradhyVijaywat"  
  
CDAC@DESKTOP-1AJI9ED MINGW64 ~  
$ git config --global user.email "aaradhyvijaywat@gmail.com"
```

Create a folder in your local and open the git bash from there

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS  
$ pwd  
/c/Users/CDAC/Desktop/GIT-PROJECTS
```

Clone a repo from github

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS
$ git clone https://github.com/AaradhyVijaywat/DataScience.git
Cloning into 'DataScience'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 10 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (10/10), 901.21 KiB | 2.60 MiB/s, done.
Resolving deltas: 100% (1/1), done.
```

GIT-PROJECT IS MY LOCAL FOLDER

AND GIT-PROJECT/DataScience is my GIT LOCAL FOLDER

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS
$ cd DataScience

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/DataScience (main)
$ |
```

Create a txt file

Git Status – Status of Present working directory

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/DataScience (main)
$ touch a.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/DataScience (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)
        a.txt

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

add file to the staging area

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/DataScience (main)
$ git add a.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/DataScience (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:   a.txt
```

Commit the Changes

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/DataScience (main)
$ git commit -m "Created a file"
[main 4de5439] Created a file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 a.txt
```

Push – Updating changes from the local(git) towards remote(github)

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/DataScience (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 274 bytes | 274.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/AaradhyVijaywat/DataScience.git
   a008cac..4de5439  main -> main
```

On local

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g
$ git clone https://github.com/AaradhyVijaywat/CDAC-Cloud-Computing-Learning.git
Cloning into 'CDAC-Cloud-Computing-Learning'...
remote: Enumerating objects: 35, done.
remote: Counting objects: 100% (35/35), done.
remote: Compressing objects: 100% (26/26), done.
remote: Total 35 (delta 8), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (35/35), 1.91 MiB | 4.96 MiB/s, done.
Resolving deltas: 100% (8/8), done.

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g
$ cd CDAC-Cloud-Computing-Learning

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g/CDAC-Cloud-Computing-Learning (main)
$ touch a.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g/CDAC-Cloud-Computing-Learning (main)
$ git add a.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g/CDAC-Cloud-Computing-Learning (main)
$ git commit -m "Created a text file"
[main f590347] Created a text file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 a.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g/CDAC-Cloud-Computing-Learning (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 279 bytes | 279.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/AaradhyVijaywat/CDAC-Cloud-Computing-Learning.git
0699972..f590347 main -> main

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g/CDAC-Cloud-Computing-Learning (main)
$ git pull origin main
From https://github.com/AaradhyVijaywat/CDAC-Cloud-Computing-Learning
* branch      main      -> FETCH_HEAD
Already up to date.
```

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g/CDAC-Cloud-Computing-Learning (main)
$ git log
commit f590347996be7952c467f10aa513aeb368e19482 (HEAD -> main, origin/main, orig
in/HEAD)
Author: AaradhyVijaywat <aaradhyvijaywat.dev@gmail.com>
Date:   Mon Jun 9 12:40:45 2025 +0530

    Created a text file

commit 0699972737f675d65abfbf27ba84d73e2ffd379a
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date:   Mon Jun 9 12:02:11 2025 +0530

    Delete images/one

commit 0bf6219a5c18ee35ed47a54f8998cb52afa3a7cf
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date:   Mon Jun 9 12:01:52 2025 +0530

    Add files via upload

commit baebbe42e69c6c9c37dc9087bb4f06ca64c6ad98
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date:   Mon Jun 9 11:34:35 2025 +0530
```

git revert commit_id

commit a change and roll back the commit

```
CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learnin
g/CDAC-Cloud-Computing-Learning (main)
$ touch b.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learning/CDAC-Cloud-Computing-Learning (main)
$ git add b.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learning/CDAC-Cloud-Computing-Learning (main)
$ git commit -m "Created b"
[main 16af9c4] Created b
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 b.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learning/CDAC-Cloud-Computing-Learning (main)
$ git log
commit 16af9c407bdd5fd0f21fcc041e289ce93f2b737e (HEAD -> main)
Author: AaradhyVijaywat <aaradhyvijaywat.dev@gmail.com>
Date: Mon Jun 9 12:57:02 2025 +0530

    Created b

commit f590347996be7952c467f10aa513aeb368e19482 (origin/main, origin/HEAD)
Author: AaradhyVijaywat <aaradhyvijaywat.dev@gmail.com>
Date: Mon Jun 9 12:40:45 2025 +0530

    Created a text file

commit 0699972737f675d65abfbf27ba84d73e2ffd379a
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date: Mon Jun 9 12:02:11 2025 +0530

    Delete images/one

commit 0bf6219a5c18ee35ed47a54f8998cb52afa3a7cf
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date: Mon Jun 9 12:01:52 2025 +0530

    Add files via upload

commit baebbe42e69c6c9c37dc9087bb4f06ca64c6ad98
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date: Mon Jun 9 11:34:35 2025 +0530

    Create one

commit b5519141cb493dfccedb98bb8ae4b8e59d9df08f
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date: Mon Jun 9 11:14:53 2025 +0530

    Delete waste

Delete waste

commit df34c1b38b0603538de6fb6adede26ea111759d8
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date: Mon Jun 9 11:14:19 2025 +0530

    Create waste

commit badc12e17456d49ed3dc6f61a87b790c854ef799
Author: Aaradhy Vijaywat <114227706+AaradhyVijaywat@users.noreply.github.com>
Date: Mon Jun 9 11:07:46 2025 +0530

    Creation of a folder

commit 42b01a2a93b0fbc2b75ba2d05df3cd64f33b4fc

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learning/CDAC-Cloud-Computing-Learning (main)
$ git revert 16af9c407bdd5fd0f21fcc041e289ce93f2b737e
[main b72f522] Revert "Created b"
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 b.txt

CDAC@DESKTOP-1AJI9ED MINGW64 ~/Desktop/GIT-PROJECTS/CDAC-Cloud-Computing-Learning/CDAC-Cloud-Computing-Learning (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```