GIT AND GITHUB

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$  ls -a
 ./   ../  'docker file'

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git init
Initialized empty Git repository in C:/Users/naren/Desktop/hiring-app/.git/

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls -a
 ./   ../   .git/  'docker file'

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ cd .git/

naren@narendar MINGW64 ~/Desktop/hiring-app/.git (GIT_DIR!)
$ ll
total 7
-rw-r--r-- 1 naren 197611  23 Feb 17 15:54 HEAD
-rw-r--r-- 1 naren 197611 130 Feb 17 15:54 config
-rw-r--r-- 1 naren 197611  73 Feb 17 15:54 description
drwxr-xr-x 1 naren 197611   0 Feb 17 15:54 hooks/
drwxr-xr-x 1 naren 197611   0 Feb 17 15:54 info/
drwxr-xr-x 1 naren 197611   0 Feb 17 15:54 objects/
drwxr-xr-x 1 naren 197611   0 Feb 17 15:54 refs/
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app/.git (GIT_DIR!)
$ cd ..

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls
'docker file'

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls -a
 ./   ../   .git/  'docker file'

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
On branch master

No commits yet

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

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

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ touch na

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
On branch master

No commits yet

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

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

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls -a
 ./   ../   .git/  'docker file'   na

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ rm -rf .git/

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git init
Initialized empty Git repository in C:/Users/naren/Desktop/hiring-app/.git/

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
On branch master

No commits yet

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

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

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git add na 'docker file'

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   docker file
        new file:   na


naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ touch b c d e f g h i j k l m n
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   z


naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git commit -m "added z to the project"
[master 96591a9] added z to the project
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 z

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git log
commit 96591a9fad8c98f94ac48e302e552d704442bb9b (HEAD -> master)
Author: narendar <narendar27@gmail.com>
Date:   Mon Feb 17 16:31:32 2025 +0530

    added z to the project

commit 5022e635eac375d32984117d966814744f565525
Author: narendar <narendar27@gmail.com>
Date:   Mon Feb 17 16:24:22 2025 +0530

    added couple of files

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository using

    git remote add <name> <url>

and then push using the remote name

    git push <name>
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git remote -v

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git remote add origin git@github.com:narendar-20/narendar-01.git

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git remote -v
origin  git@github.com:narendar-20/narendar-01.git (fetch)
origin  git@github.com:narendar-20/narendar-01.git (push)

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git push -u origin master
The authenticity of host 'github.com (20.207.73.82)' can't be establishe
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4U
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known h
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/naren/.ssh/id_rsa): |
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Passphrases do not match.  Try again.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/naren/.ssh/id_rsa
Your public key has been saved in /c/Users/naren/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:Yr2JThwrANtHSR+yI5Fd5dwnOoB2IrfAowsFrhEVvwU naren@narendar
The key's randomart image is:
+---[RSA 3072]----+
|oo+=E.ooo        |
|..o+**=+.+        |
|oo..**o++ + .     |
|o=.o +.. . o      |
|o.o.o + S         |
|  .o o = o        |
|    . = o         |
|     +            |
|      .           |
+----[SHA256]-----+
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ cat  /c/Users/naren/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQCyC050E6Qh7h1ttfzgUdAYYWSBRPivmOH9XALZog7Q61XWd9UCEOXk
7OX+HU0GIyXt+Gs5mQOYItjp5BFsdokxHNiGx/jtT/Hee7PgbzHP5SbRr3mmadK9PagIDxiIwY13llRa2D7OJQJBQ6pz
7Xkj1qpDo6njFkgC/tLjVqSHLOtVpOE7Z8Nah1+vUBoLJw3AvDN2pBM2PhQ/Oe1F8K9wnEuZ+DhCj+PkuieXRsH5IiSg
wDWkvfAp4Z2ZX58cpbf159PTyefYVOf3owo9+gOylSIQcBS06YODs7jvXt2hbMFRaMxDVbyaVqclqOneRFHt8Gwmf6Qz
sAdvL0OIH9D53N9WXj2WAkx51x9NzAQcj+uCTUKWKTIUjMcQlT2US8LFtSFonu9kwb8Nub3TEF2T3YPajlQjPGxFQ6P8
jKObKHlCJoMOS4GnD3Nqv2rVF1HMZoOnh+ugVEqSXPHgOIOoo85Aclfous2X6MY5Zmj8WuHWIu2qHJwJOdcQ+M= nare
@narendar

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 502 bytes | 251.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To github.com:narendar-20/narendar-01.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls
 b   c   d  'docker file'   e   f   g   h   i   j   k   l   m   n   na   z

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 928 bytes | 132.00 KiB/s, done.
From github.com:narendar-20/narendar-01
   96591a9..abcfc8d  master     -> origin/master
Updating 96591a9..abcfc8d
Fast-forward
 abc | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 abc

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls
 abc   b   c   d  'docker file'   e   f   g   h   i   j   k   l   m   n   na   z
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ touch xyz

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls
 abc   b   c   d   'docker file'   e   f   g   h   i   j   k   l   m   n   na   xyz   z

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git push
Everything up-to-date

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git push -u origin master
Everything up-to-date
branch 'master' set up to track 'origin/master'.

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git add .

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git commit -m "added a file abc"
[master a2b9f84] added a file abc
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 xyz

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls
 abc   b   c   d   'docker file'   e   f   g   h   i   j   k   l   m   n   na   xyz   z

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 230 bytes | 230.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:narendar-20/narendar-01.git
   abcfc8d..a2b9f84  master -> master
branch 'master' set up to track 'origin/master'.
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$  git clone git@github.com:narendar-20/narendar-01.git
Cloning into 'narendar-01'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 11 (delta 3), reused 8 (delta 2), pack-reused 0 (from 0)
Receiving objects: 100% (11/11), done.
Resolving deltas: 100% (3/3), done.

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ ls
 abc   c   'docker file'   f   h   j   l   n   narendar-01/   z
 b     d    e              g   i   k   m   na   xyz

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ cd  narendar-01/

naren@narendar MINGW64 ~/Desktop/hiring-app/narendar-01 (master)
$ ls
 abc   b   c   d   'docker file'   e   f   g   h   i   j   k   l   m   n   na   xyz   z
```

```
naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   hello
        new file:   narendar-01

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)
  (commit or discard the untracked or modified content in submodules)
        modified:   narendar-01 (untracked content)


naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git reset

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        hello
        narendar-01/

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

naren@narendar MINGW64 ~/Desktop/hiring-app (master)
$ git revert
usage: git revert [<options>] <commit-ish>...
   or: git revert <subcommand>
```