## GIT-1

```
MINGW64:/c/Users/Lenovo

Lenovo@AvengX MINGw64 ~
$ git --version
git version 2.49.0.windows.1

Lenovo@AvengX MINGw64 ~
$ git config --global user.name "AvengX"

Lenovo@AvengX MINGw64 ~
$ git config --global user.name "ayushraj7654321@gmail.com"

Lenovo@AvengX MINGw64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.helper=manager
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=ayushraj7654321@gmail.com
```

```
mkdir ~/GitDemo
  enovo@AvengX MINGW64 ~
cd ~/GitDemo
Lenovosavengs mindsout systemes
S git init
Initialized empty Git repository in C:/Users/Lenovo/GitDemo/.git/
Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ cat > welcome.txt <<'EOF'
Welcome to GitDemo
This repository was created for the Git hands-on lab.
  enovo@AvengX MINGW64 ~/GitDemo (master)
$ git status
On branch master
No commits yet
Untracked files:
(use "git add <file>..." to include in what will be committed)
 nothing added to commit but untracked files present (use "git add" to track)
 _enovo@AvengX MINGW64 ~/GitDemo (master)
$ ^C
 Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ cat welcome.txt
Welcome to GitDemo
This repository was created for the Git hands-on lab.
                                                                                                                                    abc
 .enovo@AvengX MINGw64 ~/GitDemo (master)
$ git add welcome.txt
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it
Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git commit -m "Add welcome.txt"
Author identity unknown
 *** Please tell me who you are.
   git config --global user.email "you@example.com"
```

```
Lenovo@AvengX MINGW64 -/GitDemo (master)
S git add welcome.txt
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it
Lenovo@AvengX MINGW64 -/GitDemo (master)
S git commit -m 'Add welcome.txt''
Author identity unknown
*** Please tell me who you are.
Run
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
to set your account's default identity.
Omit --global to set the identity only in this repository,
fatal: unable to auto-detect email address (got 'Lenovo@AvengX.(none)')
Lenovo@AvengX MINGW64 -/GitDemo (master)
S Git config --global user.name "AvengX"
bash: S: command not found
Lenovo@AvengX MINGW64 -/GitDemo (master)
S S git config --global user.name "AvengX"
bash: S: command not found
Lenovo@AvengX MINGW64 -/GitDemo (master)
S S Git config --global user.name "AvengX"
S S Git config --global user.name "AvengX"
git config --global user.name "AvengX"
S S Git config --global user.nam
```

```
$ ls -al
total 25
 total 25
drwxr-xr-x 1 Lenovo 197121 0 Aug 9 09:16 ./
drwxr-xr-x 1 Lenovo 197121 0 Aug 9 09:14 ../
drwxr-xr-x 1 Lenovo 197121 0 Aug 9 09:13 .git/
drwxr-xr-x 1 Lenovo 197121 0 Aug 9 09:16 GitDemo/
-rw-r-r-- 1 Lenovo 197121 73 Aug 9 09:09 welcome.txt
   enovo@AvengX MINGW64 ~/GitDemo (master)
echo "welcome to the version control">>welcome.txt
 ngX MINGW64 ~/GitDemo (master)
S cat welcome.txt
Welcome to GitDemo
This repository was created for the Git hands-on lab.
welcome to the version control
  enovo@AvengX MINGW64 ~/GitDemo (master)
  git status
  n branch master
 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)
 Untracked files:
(use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
  enovo@AvengX MINGW64 ~/GitDemo (master)
 s git add welcome.txt
varning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it
  enovo@AvengX MINGW64 ~/GitDemo (master)
Fig. Committed for your editor to close the file... notepad++ -multiInst -nosession -wait: line 1: notepad++: command not found error: there was a problem with the editor 'notepad++ -multiInst -nosession -wait'
Please supply the message using either -m or -F option.
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (master)

S git pull origin master
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

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

Lenovo@AvengX MINGW64 ~/GitDemo (master)
S git push origin master
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

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

Lenovo@AvengX MINGW64 ~/GitDemo (master)
S git remote add origin <a href="https://github.com/AvengX/GitDemo.git">https://github.com/AvengX/GitDemo.git</a>
bash: syntax error near unexpected token 'newline'

Lenovo@AvengX MINGW64 ~/GitDemo (master)
S ^C

Lenovo@AvengX MINGW64 ~/GitDemo (master)
S git remote add origin https://github.com/AvengX/GitDemo.git

Lenovo@AvengX MINGW64 ~/GitDemo (master)
S git remote add origin https://github.com/AvengX/GitDemo.git

Lenovo@AvengX MINGW64 ~/GitDemo (master)
S git branch -M main
git push -u origin main
```

```
♦
MINGW64:/c/Users/Lenovo/GitDemo

Lenovo@AvengX MINGW64 ~
$ git config --global user.name "AvengX"
git config --global user.email "ayushraj7654321@gmail.com"
 git config --global core.editor "\"C:/Program Files/Notepad++/notepad++.exe\" -multiInst -nosession -wait"
 Lenovo@AvengX MINGW64 ~
$ mkdir GitDemo
git init
mkdir: cannot create directory 'GitDemo': File exists
Reinitialized existing Git repository in C:/Users/Lenovo/GitDemo/.git/
 $ *.log
bash: *.log: command not found
 echo "test log" > debug.log
                   X MINGW64 ~/GitDemo (main)
  mkdir -p log
 Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ echo "inside log folder" > log/app.log
Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git add .gitignore
git commit -m "Add .gitignore to ignore logs"
fatal: pathspec '.gitignore' did not match any files
[main 1c13fa7] Add .gitignore to ignore logs
1 file changed, 1 insertion(+)
     ../ .git/ GitDemo/ debug.log log/ welcome.txt
Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ echo "*.log" > .gitignore
echo "log/" >> .gitignore
echo "/log/" >> .gitignore
   enovo@AvengX MINGW64 ~/GitDemo (main)
     ../ .git/ .gitignore GitDemo/ debug.log log/ welcome.txt
 s git add .gitignore
varning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
 Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git commit -m "Add .gitignore to ignore logs"
[main 581a9c1] Add .gitignore to ignore logs
1 file changed, 3 insertions(+)
create mode 100644 .gitignore
           AvengX MINGW64 ~/GitDemo (main)
 $ git status
 On branch main
Untracked files:
(use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
```

```
MINIOWISA/Jobbers/Lenovo/Gibbers

sensor/dakerpox Miniomida -
g of claim https://gittbub.com/Avengx/GitDemo.git
fatal: destination path 'ditDemo' already exists and is not an empty directory.

sensor/dakerpox Miniomida -
g of ditDemo
sensor/dakerpox Miniomida - /GitDemo (main)
g git config --global difficol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\"
sensor/dakerpox Miniomida - /GitDemo (main)
g git config --global difficol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\"
sensor/dakerpox Miniomida - /GitDemo (main)
g git config --global mergencol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\""
sensor/dakerpox Miniomida - /GitDemo (main)
g git config --global mergencol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\""
sensor/dakerpox Miniomida - /GitDemo (main)
g git config --global mergencol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\""
sensor/dakerpox Miniomida - /GitDemo (main)
g git config --global mergencol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\""
sensor/dakerpox Miniomida - /GitDemo (main)
g git config --global mergencol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\""
sensor/dakerpox Miniomida -/GitDemo (main)
g git config --global mergencol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\""
sensor/dakerpox Miniomida -/GitDemo (main)
g git branch fileses anch
g grand --global mergencol p-Hearge.ced "\"c://Program Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\""
sensor/dakerpox Miniomida -/GitDemo (main)
g git branch fileses anch
g grand --global mergencol p-Hearge.ced "\"c://Frogram Files/Perforce/p4merge.exe\" \"SLOCAL\" \"SREMOTE\" \"SMERGED\" \"
sensor/dakerpox Miniomida -/GitDemo (main)
g git branch fileses anch
g grand --global mergencol p-Hearge.ced
```

```
LenovoBAVenpX MINGW64 -/GitDemo (main)

$ git switch master

LenovoBAVengX MINGW64 -/GitDemo (main)

$ are better the service of the service
```

```
Sgit fatch origin
git pull origin main
remote: Enumerating objects: 3, done.
remote: Enumerating objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Umpacking objects: 100% (3/3), 861 bytes | 123.00 ki8/s, done.
From https://github.com/avengx/sitbam
Fro
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git status
on branch main
Untracked files:
    (use "git add <file>..." to include in what will be committed)
        GitDemo/
nothing added to commit but untracked files present (use "git add" to track)
Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git mergetool
No files need merging
Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git add <file-with-conflict>
bash: syntax error near unexpected token 'newline'

Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ xc

Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git add GitDemo/ does not have a commit checked out
fatal: adding files failed

Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ ^c

Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ on branch main
Untracked files:
    (use "git add <file>..." to include in what will be committed)
        GitDemo/
nothing added to commit but untracked files present (use "git add" to track)

Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ ^c

Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ rm -rf GitDemo/.git

Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git add GitDemo/
$ git commit -m "Add GitDemo folder"

On branch main
nothing to commit, working tree clean

Lenovo@AvengX MINGW64 ~/GitDemo (main)
```

```
LenovoRAvengX MINGW64 -/GitDemo (main)
$ git add GitDemo' did not match any files

LenovoRAvengX MINGW64 -/GitDemo (main)
$ git add GitDemo

LenovoRAvengX MINGW64 -/GitDemo (main)
$ git commit -m "Resolve merge conflicts: GitNewBranch -> master"
On branch main
nothing to commit, working tree clean

LenovoRAvengX MINGW64 -/GitDemo (main)
$ git log --oneline --graph --decorate --all
* 3lb353 (HeAD -> main) Add f.xx
* b5985a7 Add feature.txt on GitNewBranch
* $581a9c1 (GitNewBranch)
* 6 silayc1 (GitNewBranch)
* 2 ffaec45 (origin/main, origin/HEAD) Create .gitignore

LenovoRAvengX MINGW64 -/GitDemo (main)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch
peleted branch GitNewBranch
rror: branch 'GitNewBranch (was 581a9c1).

LenovoRAvengX MINGW64 -/GitDemo (main)
$ git push origin --delete GitNewBranch
error: branch 'GitNewBranch': remote ref does not exist
error: failed to push some refs to 'https://github.com/AvengX/GitDemo.git'

LenovoRAvengX MINGW64 -/GitDemo (main)
$ git branch --
origin/HEAD -> origin/main

LenovoRAvengX MINGW64 -/GitDemo (main)
$ git branch --
origin/HEAD -> origin/main
origin/HEAD -> origin/main
remotes/origin/HEAD -> origin/main
remotes/origin/HEAD -> origin/main
remotes/origin/main
```

```
Lenovo@Avengx MINGw64 ~/GitDemo (main)
S git checkout -b GitNewBranch main
Switched to a new branch 'GitNewBranch'

Lenovo@Avengx MINGw64 ~/GitDemo (GitNewBranch)
S git branch -d GitNewBranch
error: cannot delete branch 'GitNewBranch' used by worktree at 'C:/Users/Lenovo/GitDemo'

Lenovo@Avengx MINGw64 ~/GitDemo (GitNewBranch)
S AC

Lenovo@Avengx MINGw64 ~/GitDemo (GitNewBranch)
S git checkout main
Switched to branch 'main'

Lenovo@Avengx MINGw64 ~/GitDemo (main)
S git branch -d GitNewBranch (was 31b35d3).

Lenovo@Avengx MINGw64 ~/GitDemo (main)
S
```

```
Lenovo@AvengX MINGW64 ~

$ git config --global merge.tool p4merge

Lenovo@AvengX MINGW64 ~

$ git config --global mergetool.p4merge.cmd 'p4merge "$LOCAL" "$BASE" "$REMOTE" "$MERGED"'

Lenovo@AvengX MINGW64 ~

$ git config --global diff.tool p4merge

Lenovo@AvengX MINGW64 ~

$ git config --global difftool.p4merge.cmd 'p4merge "$LOCAL" "$REMOTE"'

Lenovo@AvengX MINGW64 ~

$ git config --global mergetool.keepBackup true
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git checkout master
git pull origin master  # if repo has remote (optional)
git status
error: pathspec 'master' did not match any file(s) known to git
fatal: couldn't find remote ref master
on branch main
nothing to commit, working tree clean

Lenovo@AvengX MINGW64 ~/GitDemo (main)
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (GitWork)
$ git checkout -b GitWork fatal: a branch named 'GitWork' already exists

Lenovo@AvengX MINGW64 ~/GitDemo (GitWork)
$ cat > hello.xml <<'EOF' <hello>Branch version: original from GitWork.</hello>
EOF

Lenovo@AvengX MINGW64 ~/GitDemo (GitWork)
$ git add hello.xml warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it

Lenovo@AvengX MINGW64 ~/GitDemo (GitWork)
$ git commit -m "Add hello.xml on GitWork (initial)"
[GitWork 7c52337] Add hello.xml on GitWork (initial)
1 file changed, 1 insertion(+) create mode 100644 hello.xml
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (main)

§ git branch master

Lenovo@AvengX MINGW64 ~/GitDemo (main)

§ git checkout master

Switched to branch 'master'

Lenovo@AvengX MINGW64 ~/GitDemo (master)

§ cat > hello.xml <<'EOF'

<hello>Master version: different content from master.</hello>

EOF

Lenovo@AvengX MINGW64 ~/GitDemo (master)

§ git add hello.xml

git commit -m "Add hello.xml on master with different content"

warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it

[master d18bcba] Add hello.xml on master with different content

1 file changed, 1 insertion(+)

create mode 100644 hello.xml
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate --all
* dl8bcba (HEAD -> master) Add hello.xml on master with different content
| * $f5778b (GitWork) Update hello.xml in GitWork
| * 7c52337 Add hello.xml on GitWork (initial)
|/
* 3lb35d3 (main) Add f.txt
* b5985a7 Add feature.txt on GitNewBranch
* 581a9cl Add .gitignore to ignore logs
* 1c13fa7 Add .gitignore to ignore logs
* f39c932 Add welcome.txt
* 2faec45 (origin/main, origin/HEAD) Create .gitignore

Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git diff master..GitWork -- hello.xml
diff --git a/hello.xml b/hello.xml
index 29648c9..ca494dc 100644
--- a/hello.xml
@@ -1 +1 @@
-<hello.xml
@@ -1 +1 @@
-<hello.xmsater version: different content from master.</hello>
+<hello.xmsater version: UPDATED content from GitWork.</hello>

Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git difftool -t p4merge master..GitWork -- hello.xml
/mingw64/libexec/git-core/git-mergetool--lib: line 172: p4merge: command not found
fatal: external diff died, stopping at hello.xml
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git merge GitWork
Auto-merging hello.xml
CONFLICT (add/add): Merge conflict in hello.xml
Automatic merge failed; fix conflicts and then commit the result.
```

```
_enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git mergetool
Merging:
hello.xml
Normal merge conflict for 'hello.xml':
{|local}: created file {remote}: created file /mingw64/libexec/git-core/git-mergetool--lib: line 176: p4merge: command not found merge of hello.xml failed
 _enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git mergetool -t p4merge
Merging:
hello.xml
Normal merge conflict for 'hello.xml':
_enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git log --oneline --graph --decorate --all

* d18bcba (HEAD -> master) Add hello.xml on master with different content

| * 5f5778b (GitWork) Update hello.xml in GitWork

| * 7c52337 Add hello.xml on GitWork (initial)
  31b35d3 (main) Add f.txt
b5985a7 Add feature.txt on GitNewBranch
581a9c1 Add .gitignore to ignore logs
1c13fa7 Add .gitignore to ignore logs
f39c932 Add weltome.txt
   2faec45 (origin/main, origin/HEAD) Create .gitignore
 Lenovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git diff master..GitWork
diff --git a/hello.xml b/hello.xml
index 29648c9..ca494dc 100644
--- a/hello.xml
 ++ b/hello.xml
 -<hello>Master version: different content from master.</hello
-<hello>Branch version: UPDATED content from GitWork.</hello>
 _enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git difftool -t p4merge master..GitWork
/mingw64/libexec/git-core/git-mergetool--lib: line 172: p4merge: command not found
fatal: external diff died, stopping at hello.xml
                      MINGW64 ~/GitDemo (master|MERGING)
$ git checkout master
git merge GitWork
hello.xml: needs merge
error: you need to resolve your current index first error: Merging is not possible because you have unmerged files. hint: Fix them up in the work tree, and then use 'git add/rm <file>' hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
 _enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git status
On branch master
You have unmerged paths.
   (fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)
Unmerged paths:
           "git add <file>..." to mark resolution)
both added: hello.xml
no changes added to commit (use "git add" and/or "git commit -a")
 .enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
```

```
_enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git mergetool -t p4merge
Merging:
hello.xml
Normal merge conflict for 'hello.xml':
{|local}: created file {remote}: created file /mingw64/libexec/git-core/git-mergetool--lib: line 176: p4merge: command not found merge of hello.xml failed
Lenovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git add <conflicted-file>
git commit -m "Merge GitWork into master with conflict resolution"
bash: syntax error near unexpected token `newline
           hello.xml
error: Committing is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
 _enovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
$ git status
echo "*.orig" >> .gitignore
git add .gitignore
                                              # example backup pattern
On branch master
You have unmerged paths.
   (fix conflicts and run "git commit")
(use "git merge --abort" to abort the merge)
Unmerged paths:
           "git add <file>..." to mark resolution)
both added: hello.xml
  (use
no changes added to commit (use "git add" and/or "git commit -a") warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
 Lenovo@AvengX MINGW64 ~/GitDemo (master|MERGING)
 _enovo@AvengX MINGW64 ~/GitDemo (master)
$ echo "*.orig" >> .gitignore
git add .gitignore
git commit -m "Ignore merge backup files"
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it [master 71a7547] Ignore merge backup files
1 file changed, 1 insertion(+)
 _enovo@AvengX MINGW64 ~/GitDemo (master)
  git branch
   GitWork
  main
```

\_enovo@AvengX MINGW64 ~/GitDemo (master)

Deleted branch GitWork (was 5f5778b).

\$ git branch -d GitWork

```
Lenovo@AvengX MINGW64 ~/GitDemo (master)

$ git log --oneline --graph --decorate

* 71a7547 (HEAD -> master) Ignore merge backup files

* 6a9bf4b Merge GitWork into master with conflict resolution

| * 5f5778b Update hello.xml in GitWork
| * 7c52337 Add hello.xml on GitWork (initial)

* | d18bcba Add hello.xml on master with different content

|/

* 31b35d3 (main) Add f.txt

* b5985a7 Add feature.txt on GitNewBranch

* 581a9c1 Add .gitignore to ignore logs

* 1c13fa7 Add .gitignore to ignore logs

* f39c932 Add welcome.txt
```

## GIT-5

```
Lenovo@AvengX MINGW64 ~/GitDemo (master)

$ git checkout master
git status
Already on 'master'
On branch master
nothing to commit, working tree clean

Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git branch -a
main
* master
remotes/origin/HEAD -> origin/main
remotes/origin/main
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (main)
$ git checkout master
git pull origin master
Switched to branch 'master'
fatal: couldn't find remote ref master
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git checkout -b Git-T03-HOL_002
fatal: a branch named 'Git-T03-HOL_002' already exists

Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git add .
git commit -m "Add changes for Git-T03-HOL_002"
On branch master
nothing to commit, working tree clean

Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git push -u origin Git-T03-HOL_002
branch 'Git-T03-HOL_002' set up to track 'origin/Git-T03-HOL_002'.
Everything up-to-date

Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git branch -r
origin/Git-T03-HOL_002
origin/HEAD -> origin/main
origin/main
```

```
Lenovo@AvengX MINGW64 ~/GitDemo (master)
$ git fetch origin
git log --oneline origin/Git-T03-HOL_002
31b35d3 (origin/Git-T03-HOL_002, Git-T03-HOL_002) Add f.txt
b5985a7 Add feature.txt on GitNewBranch
581a9c1 Add .gitignore to ignore logs
1c13fa7 Add .gitignore to ignore logs
f39c932 Add welcome.txt
```