

GIT ASSIGNMENT

Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

```
MINGW64/C/mygitfold/AssignmentsWipro
$ cd /C/mygitfold
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold (master)
$ cd AssignmentsWipro
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (main)
$ gitpush
bash: gitpush: command not found
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (main)
$ git push
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), 317 bytes | 105.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/varshasusmitha/AssignmentsWipro.git
   b5e6a99..f9d67bf  main -> main
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (main)
$ vim file.txt
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (main)
$ cat file.txt
hello world
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (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)
   file.txt

nothing added to commit but untracked files present (use "git add" to track)
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (main)
$ git add .
warning: in the working copy of 'file.txt', LF will be replaced by CRLF the next time Git touches it
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (main)
$ git commit -m "new file is created"
[main 061469a] new file is created
 1 file changed, 1 insertion(+)
 create mode 100644 file.txt
HP@DESKTOP-BQ61BLI MINGW64 /C/mygitfold/AssignmentsWipro (main)
```

Assignment 2: Branch Creation and Switching

Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

```
MINGW64/C/mygitfold/Assignmentswipro
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (main)
$ git branch feature
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (main)
$ git checkout feature
Switched to branch 'feature'
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (feature)
$ vim file1.txt
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (feature)
$ vim file1.txt
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (feature)
$ cat file1.txt
i
Hello Wipro
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (feature)
$ git status
On branch feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1.txt

nothing added to commit but untracked files present (use "git add" to track)
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (feature)
$ git add .
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (feature)
$ git commit -m "file added"
[feature da7d8ba] file added
1 file changed, 2 insertions(+)
create mode 100644 file1.txt
HPDESKTOP-BQ61BLI MINGW64 /C/mygitfold/Assignmentswipro (feature)
$ git push
fatal: The current branch feature has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.
```

Assignment 3: Feature Branches and Hotfixes

Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved

```
MINGW64/C:/mygitfold/AssignmentsWipro
HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ cat file1.txt
cat: file1.txt: No such file or directory

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ cat file.txt
hello world

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ vim file.txt

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git status
On branch hotfix/issue-description
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:   file.txt

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

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git add .
warning: in the working copy of 'file.txt', LF will be replaced by CRLF the next time Git touches it

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git commit -m "modified"
[hotfix/issue-description cb773f0] modified
1 file changed, 1 insertion(+)

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git push
fatal: The current branch hotfix/issue-description has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin hotfix/issue-description

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git status
On branch hotfix/issue-description
nothing to commit, working tree clean

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ |

MINGW64/C:/mygitfold/AssignmentsWipro
HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (feature)
$ git checkout -b hotfix/issue-description main
Switched to a new branch 'hotfix/issue-description'

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git merge main
Already up to date.

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git ls-files
.gitignore
README.md
file.txt

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ cat file1.txt
cat: file1.txt: No such file or directory

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ cat file.txt
hello world

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ vim file.txt

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git status
On branch hotfix/issue-description
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:   file.txt

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

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git add .
warning: in the working copy of 'file.txt', LF will be replaced by CRLF the next time Git touches it

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git commit -m "modified"
[hotfix/issue-description cb773f0] modified
1 file changed, 1 insertion(+)

HPDESKTOP-SQ61BLI MINGW64 /C:/mygitfold/AssignmentsWipro (hotfix/issue-description)
$ git push
fatal: The current branch hotfix/issue-description has no upstream branch.
To push the current branch and set the remote as upstream, use
```