



Git Bash

Task 1

lavanya Gopinath

GIT INT: We going to initiate the empty git repo.

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1
$ git init
Initialized empty Git repository in C:/Users/Lavanya Gopinath/Desktop/Task-1/.git/
```

GIT ADD: Puts current working files into the stage.

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git status
On branch master

No commits yet

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

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

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git add test.docx

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   test.docx
```

Make sure the file is green.

GIT COMMIT: Commits staged changes to a local branch.

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git commit -m"task 1 folder committed"
[master (root-commit) 4db6691] task 1 folder committed
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.docx
```

GIT PUSH: Uploads changes from all local branches to the respective remote repositories.

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 233 bytes | 233.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/lavanya1805/cognizance.git
 * [new branch]      master -> master
```

GIT checkout: Replaces the current working files with files from a branch.

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git checkout test
Switched to branch 'test'

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git add .

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git status
On branch test
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   test1.docx
```

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git status
On branch test
nothing to commit, working tree clean

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git push origin test
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 248 bytes | 248.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'test' on GitHub by visiting:
remote:   https://github.com/lavanya1805/cognizance/pull/new/test
remote:
To https://github.com/lavanya1805/cognizance.git
 * [new branch]      test -> test
```

GIT CHECKOUT b: Creates a new local branch from the current branch's tip.

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git branch
  master
* test

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git checkout master
Switched to branch 'master'

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git checkout test
Switched to branch 'test'

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git checkout -b test1
Switched to a new branch 'test1'

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test1)
$ git add .
```

```

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test1)
$ git commit -m"test2"
[test1 3be42e8] test2
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test2.docx

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test1)
$ git push origin test1
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 253 bytes | 253.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'test1' on GitHub by visiting:
remote:   https://github.com/lavanya1805/cognizance/pull/new/test1
remote:
To https://github.com/lavanya1805/cognizance.git
 * [new branch]      test1 -> test1

```

GIT MERGE: Merges files from a given branch into the current branch.

```

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git checkout master
Switched to branch 'master'

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git merge test1
Updating 4db6691..3be42e8
Fast-forward
 test1.docx | 0
 test2.docx | 0
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test1.docx
create mode 100644 test2.docx

```

GIT clone:

```

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git clone https://github.com/lavanya1805/cognizance.git
Cloning into 'cognizance'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 7 (delta 2), reused 5 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), done.
Resolving deltas: 100% (2/2), done.

```

GIT fetch: Downloads changes from a remote repository into the local clone.

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git branch -D test1
Deleted branch test1 (was 3be42e8).

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git checkout master
Switched to branch 'master'

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (master)
$ git fetch origin test1:test1
From https://github.com/lavanya1805/cognizance
* [new branch]      test1      -> test1
```

Git pull:

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test1)
$ git pull origin master
From https://github.com/lavanya1805/cognizance
* branch            master      -> FETCH_HEAD
Already up to date.
```

Git rebase:

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test1)
$ git rebase test
Current branch test1 is up to date.

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test1)
$ git checkout test
Switched to branch 'test'

Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ git rebase test1
Successfully rebased and updated refs/heads/test.
```

git config --list --show-origin

```
Lavanya Gopinath@DESKTOP-H094T34 MINGW64 ~/desktop/Task-1 (test)
$ 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/Lavanya Gopinath/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/Lavanya Gopinath/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/Lavanya Gopinath/.gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Users/Lavanya Gopinath/.gitconfig filter.lfs.required=true
file:C:/Users/Lavanya Gopinath/.gitconfig user.name=lavanya1805
file:C:/Users/Lavanya Gopinath/.gitconfig user.email=99705278+lavanya1805@users.noreply.github.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/lavanya1805/cognizance.git
file:.git/config remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
```