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Roll no.: 21251

Creating a repository

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~
$ cd Desktop

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop
$ mkdir Cognizance

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop
$ cd Cognizance

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance
$ git init
Initialized empty Git repository in C:/Users/Hade's Lair/Desktop/Cognizance/.git/

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ |
```

Creating a folder

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ mkdir Task-1

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ cd Task-1

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
```

Creating files in repository

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ touch Task-1.file

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ ls
Task-1.file

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (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)

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ touch Task-1.txt

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ ls
Task-1.file  Task-1.txt

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (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)
```

Git add operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ git add Task-1.txt

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Task-1.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Task-1.file


Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ git add Task-1.file

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Task-1.file
        new file:   Task-1.txt


Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$
```

Git commit operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ git commit -m "This is the first commit"
[master (root-commit) 9c3cd74] This is the first commit
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Task-1/Task-1.file
 create mode 100644 Task-1/Task-1.txt
```

Git checkout operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (master)
$ git branch -M main


Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git checkout
M       Task-1/Task-1.txt

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git checkout main
Already on 'main'
M       Task-1/Task-1.txt
```

Git commit -a operation

```
MINGW64:/c/Users/Hade's Lair/Desktop/Cognizance/Task-1

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Changes to be committed:
#       modified:   Task-1.txt
#
~
~
~
```

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git switch non-existing-branch
fatal: invalid reference: non-existing-branch

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git commit -a
[main ccbd6ca]  Hello!   This is a commit message area....   I don't know how to exit this area.
 1 file changed, 5 insertions(+)
```

Git checkout -b operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git checkout -b hades
Switched to a new branch 'hades'

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (hades)
$ git switch main
Switched to branch 'main'

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$
```

Git clone operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git clone https://github.com/JanetStanmore/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$
```

Git fetch operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git fetch https://github.com/JanetStanmore/Cognizance.git
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 595 bytes | 35.00 KiB/s, done.
From https://github.com/JanetStanmore/Cognizance
 * branch            HEAD          -> FETCH_HEAD

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$
```

Git log operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git log
commit ccbd6caec3d49b9b507dda7ac434a3c75ee5f757 (HEAD -> main, hades)
Author: JanetStanmore <smrutipadhi29414@gmail.com>
Date:   Tue Feb 15 21:00:58 2022 +0530

    Hello!
    This is a commit message area....
    I don't know how to exit this area.

commit 9c3cd74e07d252d4271630241d7a3d624a584400
Author: JanetStanmore <smrutipadhi29414@gmail.com>
Date:   Tue Feb 15 20:32:08 2022 +0530

    This is the first commit

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$
```

Git merge operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git checkout hades
Switched to branch 'hades'

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (hades)
$ git checkout main
Switched to branch 'main'

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git merge hades
Already up to date.
```

Git rebase operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git rebase hades
Current branch main is up to date.

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git rebase main
Current branch main is up to date.

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Cognizance/

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

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance/Task-1 (main)
$
```

Git push operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ git push origin master
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (8/8), 717 bytes | 717.00 KiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:        https://github.com/JanetStanmore/Cognizance/pull/new/master
remote:
To https://github.com/JanetStanmore/Cognizance.git
 * [new branch]      master -> master
```

Git pull operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ git pull https://github.com/JanetStanmore/Cognizance.git
From https://github.com/JanetStanmore/Cognizance
 * branch              HEAD        -> FETCH_HEAD
fatal: refusing to merge unrelated histories

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ git pull origin master
From https://github.com/JanetStanmore/Cognizance
 * branch              master      -> FETCH_HEAD
Already up to date.

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ |
```

Git reset operation

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ git reset --soft

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$
```

Git config –list –show-origin command

```
Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$ 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/Hade's Lair/.gitconfig    user.name=JanetStanmore
file:C:/Users/Hade's Lair/.gitconfig    user.email=smrutipadhi29414@gmail.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.options.url=https://github.com/JanetStanmore/Cognizance.git
file:.git/config        remote.options.fetch=+refs/heads/*:refs/remotes/options/*
file:.git/config        remote.origin.url=https://github.com/JanetStanmore/Cognizance.git
file:.git/config        remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*

Hade's Lair@DESKTOP-Q7UK0QJ MINGW64 ~/Desktop/Cognizance (master)
$
```