# Task1

### 1. git –version

This command is used to check the version of the git.

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git --version git version 2.25.1
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

### 2. git init

This command is used to start new empty git repository

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git init
        Initialized empty Git repository in /home/varsha/Desktop/ineuron_tasks/assignments/assignment1/.git/
        varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

## 3. git config

This command is used initially to configure the user.name and user.email. This specifies what email id and username will be used from a local repository.

--global flag is used to writes the settings to all repositories on the computer.

```
varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git config --global user.name "VKvarsha98"
varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

varsha@varsha:~/Desktop/ineuron\_tasks/assignments/assignment1\$ git config --global user.email "varshavk98@gmail.com"
 varsha@varsha:~/Desktop/ineuron\_tasks/assignments/assignment1\$

#### 4. git status

The git status command tells the current state of the repository.

## 5. git add

git add . adds whole files to the staging area.

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git add .
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

## 6. git commit

This command ensures that the changes are saved to the local repository. "—m <message>" is used to describe everyone that what has happened for easy understanding.

```
varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git commit -m "first commit"
[master (root-commit) 6bdb60b] first commit
6 files changed, 2 insertions(+)
create mode 100644 README.md
create mode 100644 Taskl/screenshots/gitconfigemail.png
create mode 100644 Taskl/screenshots/gitconfigname.png
create mode 100644 Taskl/screenshots/githelp.png
create mode 100644 Taskl/screenshots/gitinit.png
create mode 100644 Taskl/screenshots/gitinit.png
create mode 100644 Taskl/screenshots/gitversion.png
varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

### 7. git branch

The git branch command is used to determine what branch the local repository is on.

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git branch -M main
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

git branch <branch name> creates new branch

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git branch developer1
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git branch developer1
    * main
```

## 8. git remote

This command used to create, view, and delete connections to other repositories.

Create a new connection to a remote repository

• varsha@varsha:~/Desktop/ineuron\_tasks/assignments/assignment1\$ git remote add origin https://github.com/VKvarsha98/Git\_Assignment .git

List the remote connections

```
varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git remote -v
origin https://github.com/VKvarsha98/Git_Assignment.git (fetch)
origin https://github.com/VKvarsha98/Git_Assignment.git (push)
```

#### 9. git push

This command is used to transfer the commits or pushing the content from the local repository to the remote repository.

## 10.git checkout

The git checkout command is used to switch branches, whenever the work is to be started on a different branch.

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git checkout developer1
        Switched to branch 'developer1'
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git branch
        * developer1
        main
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

### 11.git merge

This command is used to integrate the branches together. The command combines the changes from one branch to another branch.

```
varsha@varsha:~/Desktop/ineuron tasks/assignments/assignment1$ git merge developer1
Updating la9f900..e8af0c5
Fast-forward
README.md
Task1/screenshots/gitadd.png
                                  Bin 0 -> 10448 bytes
 .../screenshots/gitbranch.png
                                  Bin 0 -> 10163 bytes
 .../gitbranchdev.png
                                  Bin 0 -> 13825 bytes
 .../gitcheckout.png
                                  Bin 0 -> 20671 bytes
 .../screenshots/gitcommit.png
                                  Bin 0 -> 35649 bytes
Task1/screenshots/gitlog.png
                                  Bin 0 -> 18299 bytes
Task1/screenshots/gitmerge.png
                                  Bin 0 -> 19626 bytes
Task1/screenshots/gitpush.png
                                  Bin 0 -> 36824 bytes
 .../gitremote-v.png
                                  Bin 0 -> 14495 bytes
 .../gitremoteadd.png
                                  Bin 0 -> 9921 bytes
 .../screenshots/gitstatus.png
                                  Bin 0 -> 25784 bytes
                                | Bin 0 -> 47124 bytes
 .../gitwhatchanged.png
13 files changed, 2 insertions(+), 2 deletions(-)
create mode 100644 Task1/screenshots/gitadd.png
create mode 100644 Task1/screenshots/gitbranch.png
create mode 100644 Task1/screenshots/gitbranchdev.png
create mode 100644 Task1/screenshots/gitcheckout.png
create mode 100644 Task1/screenshots/gitcommit.png
create mode 100644 Task1/screenshots/gitlog.png
create mode 100644 Task1/screenshots/gitmerge.png
create mode 100644 Task1/screenshots/gitpush.png
create mode 100644 Task1/screenshots/gitremote-v.png
create mode 100644 Task1/screenshots/gitremoteadd.png
create mode 100644 Task1/screenshots/gitstatus.png
create mode 100644 Task1/screenshots/gitwhatchanged.png
```

## 12.git log

This command shows the order of the commit history for a repository.

```
varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git log
commit 6bdb60bce0ae29c109558f096ac5c7c422070f5c (HEAD -> master)
Author: VKvarsha98 <varshavk98@gmail.com>
Date: Thu Oct 13 15:56:14 2022 +0530

first commit
```

## 13.git pull

This command is used to fetch and merge changes from the remote repository to the local repository.

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git pull
        Already up to date.
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

## 14.git reset

This command is used to unstage a file while retaining the cahnges in working directory

```
• varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git reset 83a473ea39518b4585c644e8d492a6c018c59130 Unstaged changes after reset:

M main.py
```

### 15.git stash

This command is used save modified and staged changes. git stash pop command is write working from top of the stash stash stack

```
• varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git stash
Saved working directory and index state WIP on main: 83a473e added main.py
▶ varsha@varsha:~/Desktop/ineuron tasks/assignments/assignment1$ git stash pop
 On branch main
 Your branch is ahead of 'origin/main' by 1 commit.
   (use "git push" to publish your local commits)
 Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: Taskl/screenshots/gitreset.png
 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: main.py
 Untracked files:
   (use "git add <file>..." to include in what will be committed)
         Task1/screenshots/gitstash.png
 Dropped refs/stash@{0} (ad21111b703cfd2c172405f83415e413c342ae17)
 varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignmentl$
```

## 16.git rm

This command deletes the file from your working directory and stages the deletion.

```
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$ git rm -f main.py rm 'main.py'
    varsha@varsha:~/Desktop/ineuron_tasks/assignments/assignment1$
```

## 17.git help

This command displays help information about git

```
varsnævarsha:-/Desktop/ineuron_tasks/assigments/assigment1$ git help
usage: git [--version] [--help] [-C <path>] [-c <name>==xouve>]
[--exec-path[=<path>]] [--html-path] [--nan-path] [--info-path]
[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
[--git-dir=<path>] [--work-tree=<path>] [--nanespace=<name>]
<command> [<args>]
These are common Git commands used in various situations:
start a working area (see also: git help tutorial)
clone Clone a repository into a new directory
init Create an empty Git repository or reinitialize an existing one
work on the current change (see also: git help everyday)
add Add file contents to the index
nv Move or rename a file, a directory, or a symlink
restore Restore working tree files
      restore Restore working tree files
rm Remove files from the working tree and from the index
sparse-checkout Initialize and modify the sparse-checkout
 examine the history and state (see also: git help revisions)
bisect Use binary search to find the commit that introduced a bug
diff Show changes between commits, commit and working tree, etc
       grep
log
                                          Print lines matching a pattern
Show commit logs
      show Show various types of objects status Show the working tree status
grow, mark and tweak your common history branch List, create, or delete branches
      corrit
                                        Record changes to the repository

Join two or more development histories together
       rebase
                                           Reapply commits on top of another base tip
Reset current HEAD to the specified state
                                      Switch branches
Create, list, delete or verify a tag object signed with GPG
collaborate (see also: git help workflows)
fetch Download objects and refs from another repository
pull Fetch from and integrate with another repository or a local branch
push Update remote refs along with associated objects
 'git help -a' and 'git help -g' list available subcommands and some concept guides. See 'git help <command>' or 'git help <concept>' to read about a specific subcommand or concept.
           git help git' for an overview of the system
```

## 18.git whatchanged

This command shows logs with difference each commit introduces

## 19.git clone

This command is used to obtain a repository from an existing URL.

```
varsha@varsha:~/Desktop/ineuron_tasks/assignments$ git clone https://github.com/varshavk98/fake-news-detection-using-deep-learning
g.git
Cloning into 'fake-news-detection-using-deep-learning'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 2.13 MiB | 2.80 MiB/s, done.
varsha@varsha:~/Desktop/ineuron_tasks/assignments$.
```