2.

By Karol Loughlin

1. Init = initialises a git repository inside of a folder.

3. Add = adds a change in the working directory into the staging area. In the format "git add ."

```
MINGW64:/g/git rm —  

C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git init
Reinitialized existing Git repository in //CS-STUDENT-01/HOME$/202300/KCCGD_B_Y1
/C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"

C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add .

C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add .
```

4. Status = Displays the state of the working directory and the staging area. FORMAT git status

```
MINGW64:/g/git rm
                                                                                    ×
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git init
Reinitialized existing Git repository in //CS-STUDENT-01/HOME$/202300/KCCGD_B_Y1
/C00294882/git rm/.git/
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add .
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git status
On branch master
nothing to commit, working tree clean
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

5. Commit = will enter editor mode for comments, and/or make a new revision point on repository. Git commit

```
MINGW64:/g/git rm
                                                                              X
/C00294882/git rm/.git/
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add .
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git status
On branch master
nothing to commit, working tree clean
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git commit
On branch master
nothing to commit, working tree clean
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

6. Remote = git remote -v : lists repositories on the remote server

```
X
 MINGW64:/g/git rm
                                                                              $ git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git add .
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git status
On branch master
nothing to commit, working tree clean
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git commit
On branch master
nothing to commit, working tree clean
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git remote -v
000294882@CD-A307-01 MINGW64 /g/git rm (master)
```

7. Push = this will update the remote node with the current node. User need to associate remote node. Git push <name>

```
MINGW64:/g/git rm
                                                                         X
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git commit
On branch master
nothing to commit, working tree clean
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git remote -v
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository us
ing
    git remote add <name> <url>
and then push using the remote name
    git push <name>
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

8. Branch = lists branches on a repository. Git branch -r to list branches on remote

```
X
 MINGW64:/g/git rm
                                                                        nothing to commit, working tree clean
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git remote -v
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository us
    git remote add <name> <url>
and then push using the remote name
   git push <name>
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git branch
00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

9. Checkout = git checkout branch_name : makes the node a current HEAD. This will not work if there is modified files.

```
MINGW64:/g/git rm
                                                                         X
    git remote add <name> <url>
                                                                                  ۸
and then push using the remote name
    git push <name>
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git branch
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git checkout
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git merge
fatal: No remote for the current branch.
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git checkout master
Already on 'master'
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

10. Merge, specifically git merge master : merges HEAD with master. Git automatically applies changes if separate. Edit files and then commit.

```
X
MINGW64:/g/git rm
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository us
ing
    git remote add <name> <url>
and then push using the remote name
    git push <name>
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git branch
 master
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git checkout
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
fatal: No remote for the current branch.
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

11. Log, specifically git log -n lists only the last n commits.

```
X
 MINGW64:/g/git rm
$ git branch
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git checkout
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git merge
fatal: No remote for the current branch.
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git checkout master
Already on 'master'
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git log
commit 9f8691f5bc300b7ffe38041320547bd28084669f (HEAD -> master)
Author: (Student C00294882) Karol Loughlin <C00294882@setu.ie>
Date: Fri Oct 20 09:48:11 2023 +0100
    first
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

12. Clone = clones a repository

```
MINGW64:/g/git rm
                                                                          X
    --no-tags
                          don't clone any tags, and make later fetches not to fo A
llow them
    --shallow-submodules any cloned submodules will be shallow
   --separate-git-dir <gitdir>
                          separate git dir from working tree
   -c, --config <key=value>
                          set config inside the new repository
   --server-option <server-specific>
                          option to transmit
   -4, --ipv4
                          use IPv4 addresses only
   -6, --ipv6
                          use IPv6 addresses only
   --filter <args> ob
--also-filter-submodules
                          object filtering
                          apply partial clone filters to submodules
    --remote-submodules
                          any cloned submodules will use their remote-tracking b
ranch
                          initialize sparse-checkout file to include only files
   --sparse
at root
    --bundle-uri <uri>
                          a URI for downloading bundles before fetching from ori
gin remote
000294882@CD-A307-01 MINGW64 /g/git rm (master)
```

13. Pull = pulls a branch from a remote server.

```
X
 MINGW64:/g/git rm
                            apply partial clone filters to submodules
                            any cloned submodules will use their remote-tracking b
    --remote-submodules
ranch
                            initialize sparse-checkout file to include only files
    --sparse
at root
                            a URI for downloading bundles before fetching from ori
    --bundle-uri <uri>
gin remote
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
There is no tracking information for the current branch. Please specify which branch you want to merge with.
See git-pull(1) for details.
    git pull <remote> <branch>
If you wish to set tracking information for this branch you can do so with:
    git branch --set-upstream-to=<remote>/<branch> master
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

14. Stash = saves local repository's changes.

```
MINGW64:/g/git rm
                                                                        ×
Please specify which branch you want to merge with.
See git-pull(1) for details.
    git pull <remote> <branch>
If you wish to set tracking information for this branch you can do so with:
    git branch --set-upstream-to=<remote>/<branch> master
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
Display all 5351 possibilities? (y or n)
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git STASH
git: 'STASH' is not a git command. See 'git --help'.
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git stash
No local changes to save
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```

15. Remove = Git rm removes files from staging area in the format : git rm filename. Can use wildcards and -r for recursive. Use - - cached to remove from staging area Use -f to use on working directory.

```
MINGW64:/g/git rm
                                                                        Х
If you wish to set tracking information for this branch you can do so with:
   git branch --set-upstream-to=<remote>/<branch> master
00294882@CD-A307-01 MINGW64 /g/git rm (master)
Display all 5351 possibilities? (y or n)
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git STASH
git: 'STASH' is not a git command. See 'git --help'.
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git stash
No local changes to save
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
$ git rm --cached
fatal: No pathspec was given. Which files should I remove?
C00294882@CD-A307-01 MINGW64 /g/git rm (master)
```