To config git

* Git config --global user.name Imamsab
* Git config –global user.email [imamsab35@gmail.com](mailto:imamsab35@gmail.com)

To check configuration

* Git config --global user.name
* Git config
* –global user.email

To initialize empty repo

* Git init
* Ls –lart (to check created repo

To track ststus of offline repository

* Git status

Stages of files

1. Untracked
2. Unmodified
3. Modified
4. staged

To add file to index (stage)

* Git add filename.doc
* Git status (file shuodl be green staging status)

To all files to stage

* Git add ---a
* Git add .
* Use any one from above 2 lines

To check log, scroll log and quit

* Git log
* Git log –p (“-p shows diff along with log”)
* Git log –p -2 (“-2 means only last 2”)
* Press down arrow to see more logs
* Press q to quit logs

To check log status

* Git log --stat (“shows summary”)

To check log with date and SHA

* Git log --pretty
* Git log –pretty=oneline (“shows only hash and commnets”)

To check log with time filter

* Git log –since=2.days
* Days can be month and years also

To format git log

* Git log --pretty=format:”%h -- %an” (“h- hash, an- author name”)
* Git log --pretty=format:”%h -- %ae” (“h- hash, an- author email”)

To delete git repo

* rm –rf .git

To clone git repo of any project (to paste press shift+insert)

* copy repo link
* in git bash type “git clone <https://github.com/tensorflow/tensorflow.git>”
* in git bash type “git clone <https://github.com/tensorflow/tensorflow.git> mytnsrfl”
* above line will copy repo inn mytnsrfl

to ignore files from git indextracking

* create .gitnore file by “touch .gitnore”
* enter the files names in .gitignore tobe ignored
* eg (“error.log”)

to ignore directories from tracking

* create .gitnore file by “touch .gitnore”
* enter the directory names in .gitignore to be ignored
* eg. (“rom/”)
* the above rom/ will ignore all rom files in project

To ignore external directories from tracking

* create .gitnore file by “touch .gitnore”
* enter the directory names in .gitignore to be ignored
* eg. (“/rom/”)

To ignore sepcific directories from tracking

* create .gitnore file by “touch .gitnore”
* enter the directory names in .gitignore to be ignored
* eg. (“static/rom/”)

To compare unstaged files with staged

* git diff

To compare staged files with committed files

* git diff –staged

To skip staging and commit modified files directly

* git commit –a –m “comment”
* **note: it won’t commit new files**

**To delete files and stage**

* git rm life.txt

**To rename file and stage**

* git mv love.txt life.txt

**To untrack the already tracked files from stage and stage**

* git rm --cached ppt.pptx
* above line will remove file ppt.pptx from track

To merge comment with already existing latest comment

* git commit --amend
* above line will open vim editor
* press I and start typing comment
* press ESC then COLON then WQ to save

To unstage file

* git restore --staged life.txt

To checkout specific file from local stage (to discard modified changes)

* git checkout -- life.txt

To checkout all files

* git checkout -f

To add git remote on local system or git push

* git remote add origin <URL>
* OR
* git push -u origin master

To check git remote URL

* git remote -v

To set git alias (shortcut cmds)

* git config --global alias.st status
* the above line will use st instead of status
* git config --global alias.ci commit
* the above line will use ci instead of commit

To create new branch

* git checkout –b <branch\_name>

To switch between branches

* git checkout <branch\_name>

to check commits of branch

* git branch –v

To check merged branch and non merged branch

* git branch --merged
* git branch --no-merged

To delete git branch

* git branch –d <branch)name>
* git branch –D <branch\_name>
* above line uses capital D which means confirmed to delete

To pull changes

* git pull
* git pull learn.txt

to push changes

* git push –u origin <branch\_name>

To revert changes

* git revert <SHA of commit history>