git version system usage

#identify your self in git before starting using it

git config --global user.email [jassemDeveloper@gmail.com](mailto:jassemDeveloper@gmail.com)

#to initialize your project

git init

#to know on which branch you are in project / to track files status

git status

#to add files /files , use dot if you want to add all files

git add .

#to remove files which added to be committed into the branch , use dot if you want remove all files

git rm -r --cached .

git rm --cached filename

#to commit changes

git commit -m "First commit"

git commit

#to commit changes (short way)

git commit -a -m “some changes”

#to check changes difference before committing

git diff

#to list commit history

git log

Working with branches

#to list the branches

git branch

#to create new branch

git branch branchName

#to select branch

git checkout branchName

# to create new branch and select it the new branch

git checkout -b newBranchName

#to delete branch but it will not be processed if the branch is not merged

git branch -d branchName

#to delete branch forcefully

git branch -D branchName

#to rename branch

git branch -m oldBranchName newBranchName

#to merge branch into another branch

#First go to the intended branch for example branchExample in order to use git merge

git checkout branchExample

git merge themodifiedBranchName

#to save your modification for later commit

git stash

#to list saved modification for later commit

git stash list

#to use saved modification and then you can commit

git stash pop

#to discard changes / any action for files that have not committed

git checkout fileName

#to reset to default and clean files for uncommitted files

git reset --hard

git clean -f -d

#to create version for your project

git tag -a “V1.0.0” -m “first version of the app”

#to get log of your modifications as one line

git log --oneline

#to list versions

git tag -l

git tag

#to get repository from the internet

git clone projectanme\_URL

#working with github using git

#first link the project

git remote add orgin <https://github.com/JassemDeveloper/testing.git>

#then to retrieve data from master branch

git pull origin master

#then upload changes to github

git push -u origin master

#to delete branch from github

git push origin --delete branchName

#to add new branch into github

git push --set-upstream origin newBranchName

######### step by step creating new branch on github

git remote add origin <https://github.com/JassemDeveloper/testing.git>

git branch newBracnhName

git checkout newBranchName

echo “Data” > file.txt

git add .

git commit -m “added new file into the new branch”

git push --set-upstream origin newBranchName

#########

######### step by step deleting branch on github

git remote add origin <https://github.com/JassemDeveloper/testing.git>

git checkout master (by default)

git push origin --delete branchName

git branch -D branchName

#########

######### step by step cloning branch on github and add files into then push it again

git clone <https://github.com/JassemDeveloper/testing.git>

git checkout branchName

echo “new data was added” > newFile.txt

git add .

git commit -m “new file”

git push

#########

######### step by step create new branch and merge it with another branch on github

git remote add origin <https://github.com/JassemDeveloper/testing.git>

git branch test1

git checkout test1

echo “new data” > file1.txt

git add .

git commit -m “new file was added”

git push --set-upstream origin test1

git checkout master

git merge test1

## now you can delete the branch after merge

git push origin --delete test1

git branch -D test1

#########