

## Assignment - 1

- 1) git init - Initialized Empty git repository.
- 2) touch index.html - Create file in your folder
- 3) git config --global user.name " " - Set the global user name for Git, which is used to identify the author of commits.
- 4) git config --global user.email " " - Set the global user email for Git.
- 5) touch index.html
- 6) git status - displays the status of working directory including:
  - a) Untacked files → Files not yet added to Git
  - b) Modified files → Files change since last commit
  - c) Staged files → Files added to the index
- 7) git add index.html - stages file for the next commit  
( go to index.html file - write basic <html> code )
- 8) git status - check modify changes in file
- 9) git commit -m "first change" - commits the changes with a meaningful message.  
Hash code → Revert to back version of file used.  
(After this, add other <sup>line</sup> in same code)
- 10) git diff - Show changes between working dir. & index also index & last commit.  
(Again git add index.html - commit - git log)
- 11) git log - displays log of commits or history including commit hash, author, date, message, etc.

Create branch → new branch code create on child b.  
Master branch → don't create disturbance (run code successfully but same requirement to change init.)

- 1) git branch demo(branchname) - create branch
- 2) git checkout demo - switched to branch then ls
- 3) touch style.css - Add css file.

Rough

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- 4) git status
  - 5) git add . - It stages all changes in the current dir & subdirectories. → git status.
  - 6) git commit -m "new change"
  - 7) git diff
  - 8) git log
  - 9) git checkout master/main.
  - 10) combine & merge
  - 11) git merge demo - merge changes.  
(master file) → (for its child file)
  - 12) Assign-2
  - 13) git clone "link" (https:// --- webbit)
  - 14) git push origin branchname
  - 15) create token:- Collaborating with Remote Repo.
  - 16) github-setting - Developer setting - Personal access tokens. Token (classic) - Generate new token - Generate new token (classic) - Note (demo) - Generate token - copy link (ghp-HSI---) - pwd "pass"
  - 17) check master:- git checkout master
  - 18) compare 2 pull req - click - Add title - Add desc!
  - 19) click - create pull req.
  - 20) git pull origin branchname.
  - 21) git done.github acc." - <copy> btn click - copy path - paste - - - git clone "paste"
  - 22) Open git clone - open terminal (webbit)  
git status - touch me.txt - git status -  
git add me.txt - git status - git commit -m "VS" -  
git branch fe - git checkout fe - git status -  
touch file.txt - git add file.txt - git  
commit -m "fe" - git push origin fe -  
username " " - Create token -  
git status - git checkout master - git pull origin branchname.

AssignmentJenkins:-

- open Terminal
- give cmd 'ngrok http 8080'
- click on forwarding link - open link (right click)
- then 'Visit Site'
- Go to the Jenkins
- Click on 'New Item'
- Enter name 'demon'
- Click on Freestyle project
- OK
- Then in 'General' click on 'Source code manag.'
- choose 'Git'
- Put Repo. URL (your git proj.)
- Branch Specified check 'main' or 'master'
- Build Trigger
- Github hook trigger for GIT SCM polling
- Apply then Save
- Go to Github account
- Select option 'Settings'
- then select 'Webhooks'
- Add webhook
- Put (put github-pwd).
- Payload URL put. (Forwarding URL copy)
  - - /github-webhook/
- Content JSON select - application.
- 'Send "Everything" select.
- Add webhook.
- ~~Go~~ Refresh page & check 'green tick'
- Then 'Jenkins'
- Build now (green)
- workspace
- code (edit code : index.html) - Commit Change
  - (JTS CF)



- Now CD

- Other location → Ubuntu → vag → www → html
- Open terminal from there.
- Add cmd 'sudo mkidir new'
- sudo (as @ 18)
- Jenkins
- Configure

- Add build step → Execute shell

- Write cmd → cp -r \* /www/html/new

- Apply & save.

- Build Now → click.

- Open terminal from there "new"

- Run (as @ 18)

- Build now click.

- Go to the because

- Type → c. o. o. o /new/index.html → Enter

- then do steps of pull & push code - - -

## Assignment

GitLab :-  
Create a GitLab account :-

- Go to [GitLab.com](https://gitlab.com) & click on "Sign Up" or "Register".
- Create a new project - click on "Login".
- Click on the "+" icon in the top-right corner & select "New Project".
- Enter a project name, description and set visibility "Public".
- Click "Create project".
- Go to GitHub account click on "Code" & copy http URL & open terminal.
- Type command on Terminal → git clone "URL"
- Add Username
- Add Password Using → Go to Edit profile - Access token name - tick all box - create Token - Your Token - copy it - paste it in pwd & then Enter.
- Go to Project folder & open terminal from there - Type command → touch index.html & open file & then add content or code & save.
- Then next command → git add .
- git commit -m "x"
- git push origin main
- Then add username & pwd. (token pwd)
- Refresh project.
- git branch new
- git branch checkout
- git checkout new
- touch style.css (add content & save it)
- git add .

- git commit -m "css v"
- git push origin new (then Add username & then new → new - check in proj.(new))
- git checkout main
- Create merge request - add description - Create it.
- After add style in main then used command git pull origin main.

## Assignment

### BitBucket ::

- Go to Bitbucket.org & click on "Sign Up"
- o "Get Started for Free."
- Log in to your Bitbucket account.
- Click on the "+" icon in top-right
- Choose Git as repository type
- Enter name & description for your repo.
- Set the repository's privacy settings as public.
- Click "Create repository".
- Open terminal & paste "clone link" on it.
- Then for 'password' go to 'settings' - then 'Personal Bitbucket Setting' - 'App password' - Create app pwd - give label & tick all boxes
- Create - then copy 'pwd' & paste it on Terminal.
- Then type command:
- touch index.html
- git add .
- git commit -m " " ✓"
- git push origin main
- git branch new
- git checkout new
- git checkout new
- touch style.css
- git add .
- git commit -m " CSS ✓"
- git push origin new
- git checkout main
- git pull origin main.

## Assignment

- archetype:generate
- Uses the Archetype plugin.
- archetype → Maven's project template
- generate → goal that tells Maven: "create a new project from a template"
- groupId = com.example
- → means you are passing a parameter (property) to Maven
- groupId → Defines the unique ID of your project's organization or company. Example: com.example.ceg.mycollege, in .pom.xml
- Used for project namespace and appears in pom.xml.
- artifactId = MyApp
- artifactId → The actual project (module) name.
- Heee: MyApp.
- It becomes the folder name and is used to create JAR/WAR names (e.g., MyApp-1.0-SNAPSHOT.jar).
- interactiveMode = false
- Normally, maven archetype:generate asks many questions interactively (like template number, version, etc.)
- Setting interactiveMode = false means:
  - Maven will not ask questions.
  - It will just use default value.



<build>

<plugins>

<plugin>

<groupId>

<groupId>

<artifactId>

<artifactId>

<version>

<version>

<executions>

<execution>

<goals>

<goal>

<goals>

<execution>

<execution>

<configuration>

<mainClass>

<configuration>

<plugin>

<plugin>

<build>

\* mn package

\*) open docker run -p 8092:80 -d project  
Type:= localhost:8092 & check.

where -p = port  
-d = detached mode.

Dockee := It's a tool which provides ability to containe, means provides ability to package & run an application in a isolated environment.

Assignment - #

1) Create folder 'Dockee' & open Tee  
2) touch index.html

3) Open Dockee file & add :-  
dockee build -t project  
From httpd:2.4

COPY index.html /usr/local/apache2/

htdocs/

Also add html code in index.html

\*) Open Terminal & add command :-  
dockee build -t project  
instead to add command:-  
sudo dockee build -t project .

\*) sudo dockee run -p 8092:80 -d project