02. Git commands.

Junitary 11 show Stations

* Install latest version of Git and Goto > programfiles is git 7 and ablant suns

* copy link and paste at System Variables (path)

SUHUB SITE I

commands: Program Files | Git | and .

\$ git config =-global user name " " \$ git confiq -- global user. email." \$ git -- Version 100018 \$ git -- help. Distribution with initiation

- (1) create a folder; add files into the folder Run amd from the folder; follow steps sentue that helps Developers store wild
 - 1) \$git init

· Sốco merit spracon Initialized empty git Repo in C: luse, 1 ---

2) \$ git status

On Branch Master

No commits Yet " " untracked files निमारिक हिन्द्रभार व विभागति है

Kamal · txt padzari o ci dutilije Kamali java.

\$ git add . (for all files adding) (or) 3000\$- gid add .. Kamal . txt -0000- : Will

4) \$ git commit in formore in the some on branch Master : AND Sip (1) nothing to commit 5) \$ git commit -m "first change! of 6) \$ git branch = M master 7) \$ git Remote add oxigin git@github.com. KAMALESWAROG | Repo. git 8) \$ git push -u origin master and Firter Credentials and files are pushed successfully. Source code Managment: 9) Fork the Repo (others)
10) Agit clone git@github.com: KAMALO6/Repo-git 11) & git branch - M branch 1 12) \$ git add: 13) \$ git commit -m "boanching 14) \$ git push -- set -upstream origin branch1 hew branch are created and file have been pushed 15) create pull ocquest 16) Merge pull request.

04) Jenkins Installation and setup:

- 01) Install latest version of Java (JDR) >> JDK 22 ×64 Installer for windows
- 02) After installing Java Set environment Vasiable for jdk.

JAVA-HOME : C: \ Profiles \ Java \ Jik. path : c:/profiles/Java/Jok-22/6

- 03) Dowload Jenkins LTS (. war) file.
 - 04) in Jinia com d enter

61 636, 1099

1

Java -jar c: 1 Jenkins war -- httpPot= Jenkins path.

If any error for Java version try, 8

- \$ java -jar jenkins-war -- enable future -jav -- http Post = 9090.
- \$ java jar jenkins war -- httpPoxt = 9090
 - 05) Navigate to chrome and enter http://ocalhost:9090.
 - 06) unlock Jenkins: Administration password in and.
 - 07) Install Selected plugins and login with credentials
 - 08) Jenkins Installed and running Successfully

0i) Freestyle project with Git Hub: i) open jenkins from chrome with localhost: ii) New item > Jenkins > Freestyle project. iii) General: > Github project: Project ust: Github link iii) source code management: Git Repousi: Github git link. (v) & Build: Triggers in the sit of op wold ? vi) Build Steps: Execute Windows Command v) Build Envisonment \$ Java Kamal sava Kamal II SAVE vii) post build actions Build Now @#1, 15 may 2024 Cost console output :i) Java Kamai > Hello "togues pribling" echo: Hello Kamal Slage ('Deploy') of

```
stage ('Test') d
     Steps of
          echo "Testing project"
   stage ('Release') d
         echo "Releasing project"
        Steps d
 4) Build Now
       Build #3
    Pipeline Job have been created
* pipeline 9s a Series of events that are
 connected together to make quick software Releas
* pipeline is responsible for building codes,
   running tests, deploying new versions
* CI is a practice that integrates code into Repo
   and finds the bugs which are done automated.
 * CD is the phase in which the changes are
    made to the code before deploying.
```

06) Docker commands

Install Docker Desktop on your windows.

Enable 1) Hyper-V

2) was (windows subsystem for linux)

I THE KE S

in cmd:

- i) ws1 -- install
- ii) ws1. exe --install -- no distribution

Restart the computer and start Docker commands

- 1) docker -- version docker version 26.1.1 build 4cf5afa
- 2) \$ docker run hello-woold Hello from docker
 - 3) \$ docker images

Repo ID SIZE hellowrd d2c36 13.3 Kb

4) \$ docker pull ubuntu
4966384cc: pull complete
Downloads ubuntu image
from Docker hub.

- 9) \$ docker commit 1137:440 Kamaleswar lubuntu \$ docker, commit 2000 ID7 2User name> / 21mags sha256 : 7df7542385015bag6
 - i) creates a new image from contain with container 10 .
- 10) \$ docker push Kamaleswaro6 | ubuntu.

The push c8da76560: pushed i) The command is used to upload a docker image from local to docker registry.

11) \$ docker, rm 13744 a12f.

Deleted container with 1d 13744912f

- 12) \$ docker "ps a 2010/4/81 (1)
- 13) & docker images Mara ti- (11)

 14) \$ docker rmi bf3dc08bfed 0

Deleted: Image Kamaleswaro6 lubuntu with 9d bf3dc08bfed.

- 10) Develop Test cases for above selenium
 - 1) Same Steps and commands as previous but the code changes internally.

Kamali.js

const of Builder, By, Key, until & = require ('seleum-webdri')
async function suntests () of

let driver = await new builder ().forBrowser ('cho') try d

await driver.get ('https://www.google.com);
console.log ('Test case: Google Success')

let images link = 'await driver. find Element
await images link . click();

f finally of await driver.quit(); }

fun tests();

2) Run & node Kamall.js in cmd.

Test case 1: Google page opened

Test case 2: Search performed

Test case 3: clicked on Images

Test case 4: clicked on News

Test case 5: Back to google.

- 09) write a Simple is program and perform testing using selenium.
 - 1) Download Nodejs latest version
 - 2) setup path for Node Is from environment var
 - 3) Open cmd:
 - i) \$ node is
 - ii) \$ npm install selenium webdriver
 - iv) \$ cd Kama)
 - v) \$ type nul > Kamall.js disc c → users → csE → Kamall (copy code)

const & Builder, By 1 Key, until & = require ('seloi - webdoiver');

async function New1 () d

let driver = await new Builder (). build try d

await driver. get ('https://google.co' let title = await driver. get Title()

b finally d b

uemi();

4) After coping code our the command. Kamali.j6 \$ node Kamali.js (Directing to google

- 5) \$ docker sun -it -d ubuntu
 - 13744a1255537165760476964d624cla
 - i) creats a new container from ubuntuinge
- (-i & -t) for command
 - iii) Ruin in the background (-d) detached
 - 6) & docker ps -a have all

conta 1D Image status 13744a125 ubuntu up q seconds 1) The command lists all currently

- running containers · (-a: all) ·
- 7) & docker exec -it 13744a125 bash
 - i) Run command into present containers
 - (1) 13744a125 container LD 10 1 (8)
 - 11) -it (STDIN & ity) reduce to (8)
 - iv) bash shell for executing

\$root@13744a125: 1# echo Jam Kamal

\$ 200t @ 13744a125 : / # exit

exit.

8) \$ docker stop 13744-0125 137449125

```
05) CI ICD using: Jenkins: : 19 3/11/2017
1) In Jenkins create a pipeline project.
2) 1) General > Nothing
   i) Advanced options > Nothing
   iii)Pipeline: pipeline Script from scm
           dail Schift Gitu injerg
      find: framponio Repo, URL:
    script path: jenkins 01
3) Now Go to the Github repo which has
   been provided and create new file
  jenkins 01 and insert code:
            Script path is Same
Pipeline
                lours as file name)
              vir) post build actions
Stage ('Build') of # wold bling
          Stepsod
Hello Komal
             echo "Building project"
        Stage ('Deploy') of
           Steps of
               echo " Deploying project"
           b
        b
```