########NOTES FOR JENKINS LAUNCH#######################

1) Go to aws account

> search ec2

> instances > launch instances

> in ami select windows 2019 > t2.micro > next >next> next > in security group add rule (http and custom tcp > 8080 (source is anywhere) ) > review and launch the machine (also create a key pair)

> launch the machine via rdp access (select machine>click on connect -> rdp client -> click on password and with the help of keypair generate password)

>launch machine

2) Go to servermanager -> local server -> on the right side you will see IE enhanced security -> disable it

3) Open internet explorer -> google.com -> search git download -> download and install git for windows

https://gitforwindows.org/

4) google.com -> jdk 11 download -> download for windows exe -> take you to an oracle page ->if you dont have account register -> automatically download will start

Another method: https://drive.google.com/file/d/1wI0QX0I29\_ZCO3BPOASjwNdzMChZ8J39/view?usp=sharing -> paste it the internet explorer -> the jdk 11 will download

> now go to C drive -> program files -> java -> jdk 11.0.14-> C:\Program Files\Java\jdk-11.0.14

>go to startup menu -> search for environment variables -> go to user variables -> Click on new -> Variable name : JAVA\_HOME and varibale value: C:\Program Files\Java\jdk-11.0.14

(do the same step for system varibles)

>Go back to jdk 11 folder in c drive -> click on bin folder -> open it and copy the path

after that go to system variables(in environment variables) -> path (double click on the path )-> NEW -> paste the path (C:\Program Files\Java\jdk-11.0.14\bin)

>go to startup menu -> search cmd -> echo %JAVA\_HOME%

if the result is C:\Program Files\Java\jdk-11.0.14 it means our java environment variables is set properly)

5)go to google.com ->search maven -> download the binary zip archive (https://maven.apache.org/download.cgi)

after maven is downloaded -> the folder will open in front of you -> cut the folder and paste it in the C drive (C:\apache-maven-3.8.5)

>go to startup menu -> search for environment variables -> go to user variables -> Click on new -> Variable name : M2\_HOME and varibale value: paste the apache maven link in c drive C:\apache-maven-3.8.5\

(do the same step for system varibles)

>>Go back to maven folder in c drive -> click on bin folder -> open it and copy the path

after that go to system variables(in environment variables) -> path (double click on the path )-> NEW -> paste the path (C:\apache-maven-3.8.5\bin)

> go to startup menu -> search cmd -> mvn -version

(this will give you the version of maven and also java ) (if there is some error coming in the java path then close your cmd and start again)

echo %M2\_HOME%

o/p -> maven c drive link

6) go to google.com -> search jenkins -> jenkins.io -> download -> select LTS (long term support) -> download jenkins for windows

install jenkins -> next -> Run service as local system -> test port (8080) -> next -> next -> next -> install the jenkins

open https://localhost:8080/

you will see jenkins live

Groovypipeline example code (alternate view of visual pipeline)

pipeline {

agent any

tools {

maven 'mymaven'

}

stages {

stage("Checkout") {

steps {

git url: 'https://github.com/akshu20791/calculator'

}

}

stage('codecompile') {

steps {

bat "mvn compile"

}

}

stage("Unit test") {

steps {

bat "mvn test"

}

}

stage("package") {

steps {

bat "mvn package"

}

}

}

}