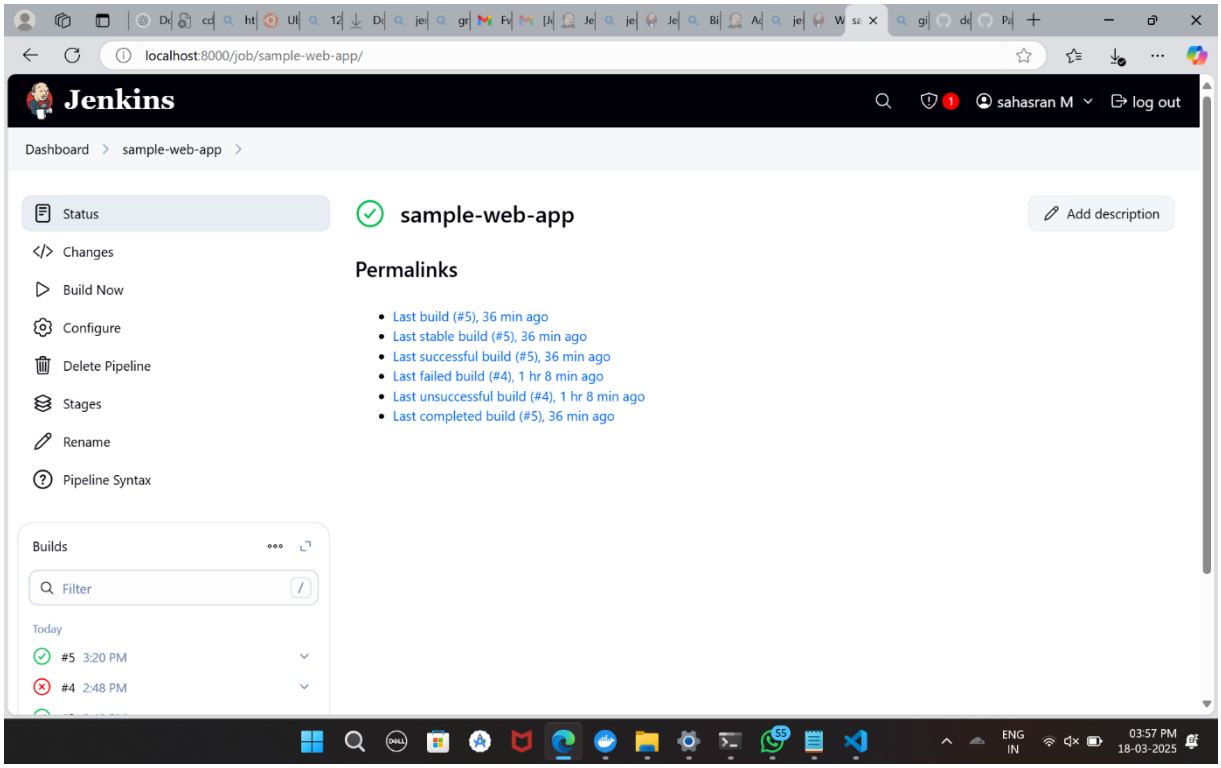
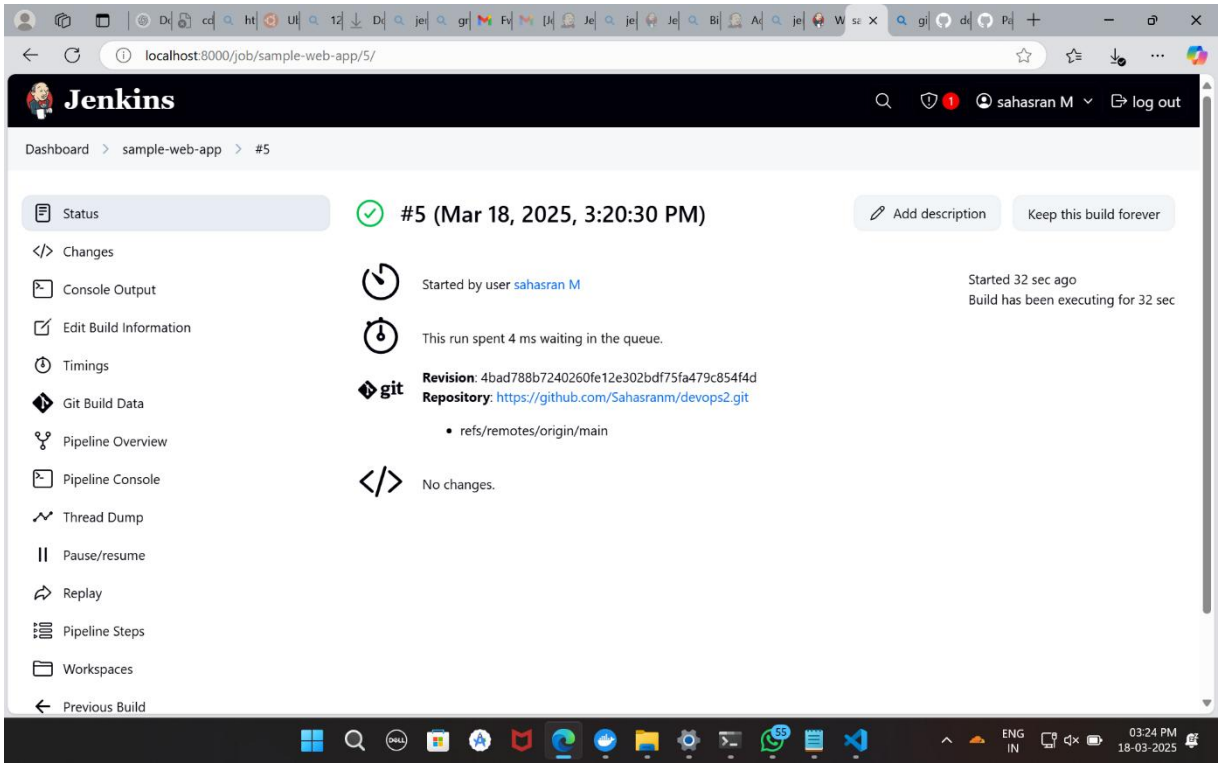
DevOps-Day 06:

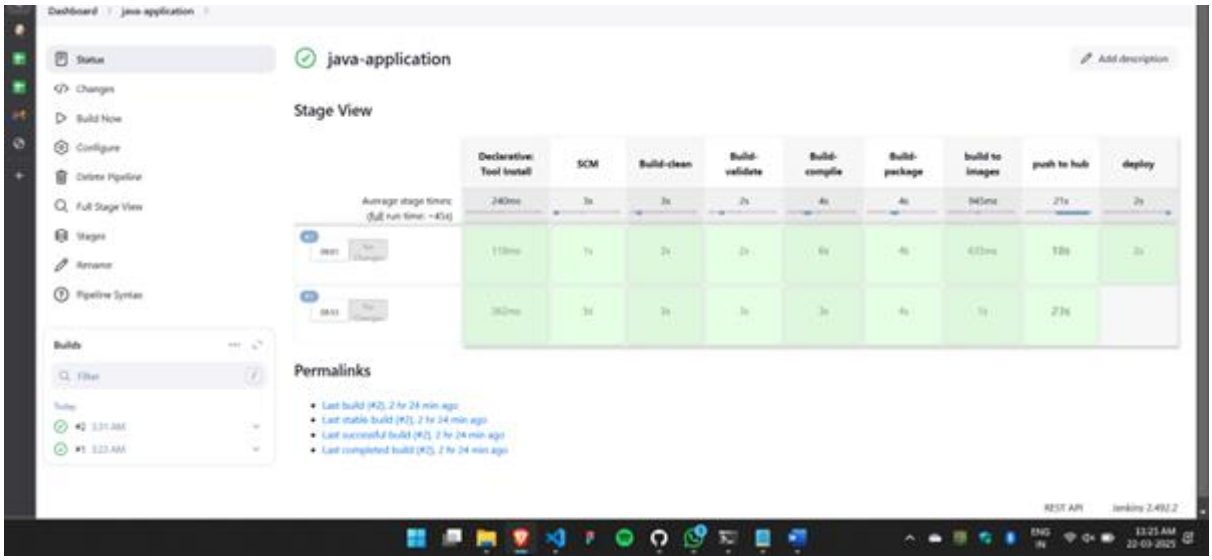
SAHASRAN M 22CSR167- III CSE

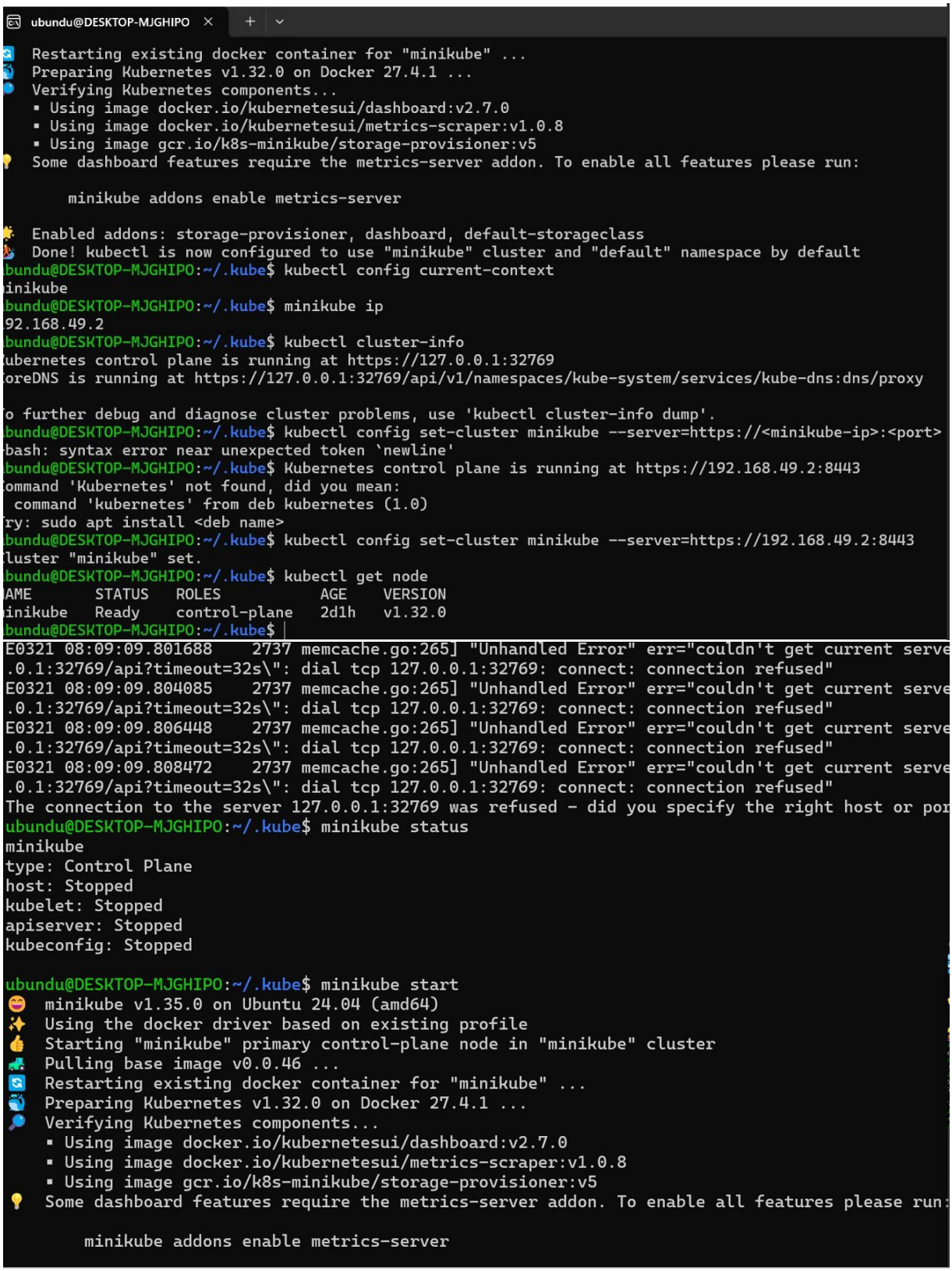
Devops class guvi (DAY-6)

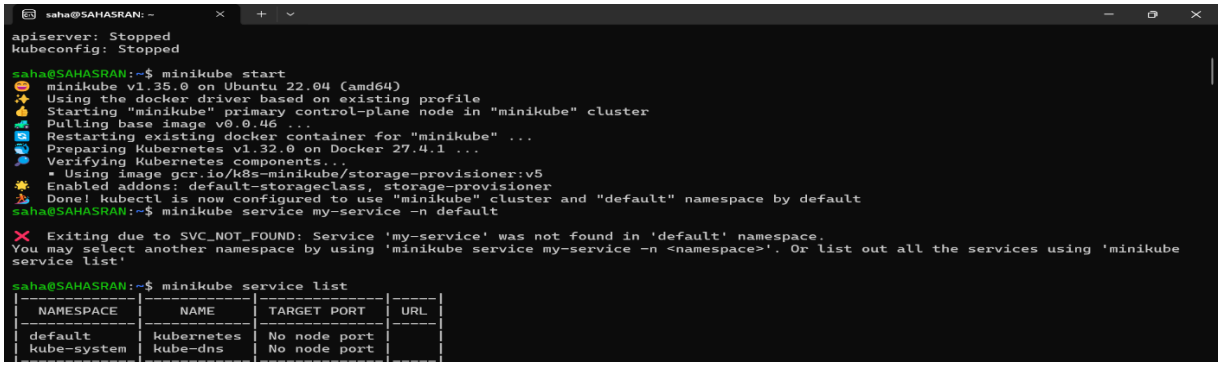
22 March 2025 - MiniKube Project

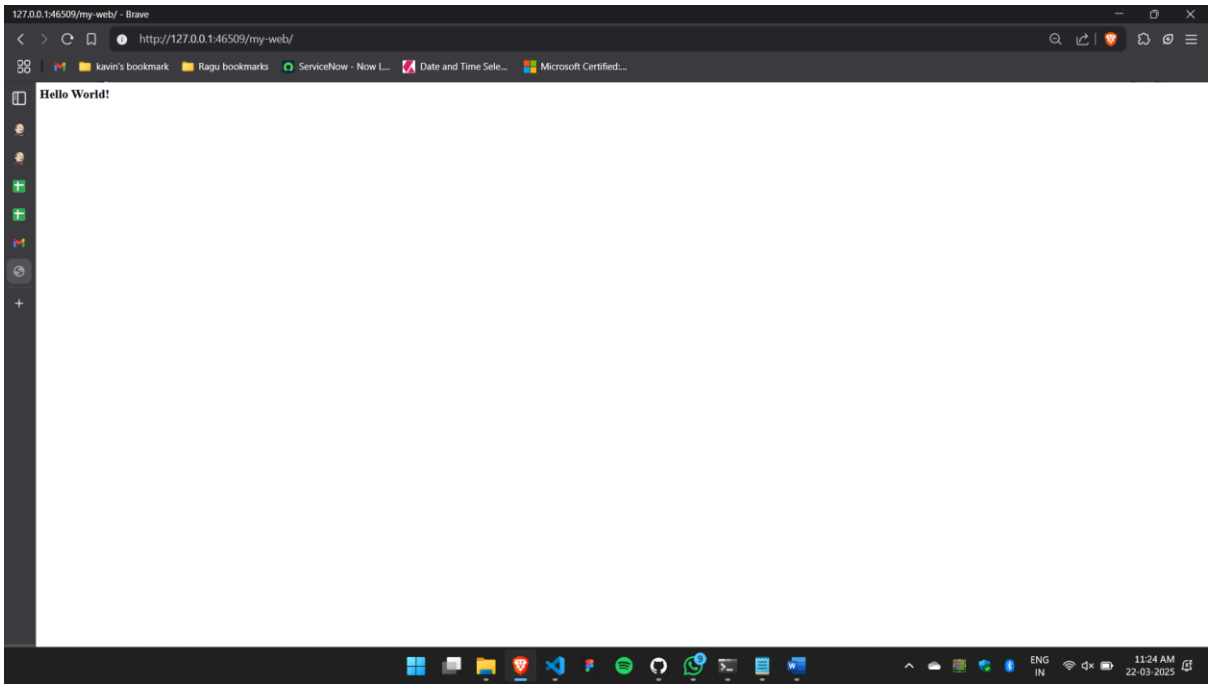



localhost:8000/job/sample-web-app/5/
Jenkins
sahasran M
log out
Dashboard
sample-web-app
#5
Status
Changes
Console Output
Edit Build Information
Timings
Git Build Data
Pipeline Overview
Pipeline Console
Thread Dump
Pause/resume
Replay
Pipeline Steps
Workspaces
Previous Build
#5 (Mar 18, 2025, 3:20:30 PM)
Add description
Keep this build forever
Started by user sahasran M
Started 32 sec ago
Build has been executing for 32 sec
This run spent 4 ms waiting in the queue.
Revision: 4bad788b7240260fe12e302bdf75fa479c854f4d
Repository: https://github.com/Sahasranm/devops2.git
refs/remotes/origin/main
No changes.
ENG
IN
03:24 PM
18-03-2025


java-application
Stage View
Permalinks


ubundu@DESKTOP-MJGHIPO
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
▪ Using image docker.io/kubernetesui/dashboard:v2.7.0
▪ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
Some dashboard features require the metrics-server addon. To enable all features please run:
minikube addons enable metrics-server
Enabled addons: storage-provisioner, dashboard, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl config current-context
inikube
bundu@DESKTOP-MJGHIPO:~/.kube$ minikube ip
92.168.49.2
bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl cluster-info
ubernetes control plane is running at https://127.0.0.1:32769
oreDNS is running at https://127.0.0.1:32769/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
o further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl config set-cluster minikube --server=https://<minikube-ip>:<port>
bash: syntax error near unexpected token `newline'
bundu@DESKTOP-MJGHIPO:~/.kube$ Kubernetes control plane is running at https://192.168.49.2:8443
ommand 'Kubernetes' not found, did you mean:
command 'kubernetes' from deb kubernetes (1.0)
ry: sudo apt install <deb name>
bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl config set-cluster minikube --server=https://192.168.49.2:8443
luster "minikube" set.
bundu@DESKTOP-MJGHIPO:~/.kube$ kubectl get node
AME STATUS ROLES AGE VERSION
inikube Ready control-plane 2d1h v1.32.0
bundu@DESKTOP-MJGHIPO:~/.kube$
E0321 08:09:09.801688 2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve
.0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 08:09:09.804085 2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve
.0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 08:09:09.806448 2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve
.0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 08:09:09.808472 2737 memcache.go:265] "Unhandled Error" err="couldn't get current serve
.0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
The connection to the server 127.0.0.1:32769 was refused - did you specify the right host or por
ubundu@DESKTOP-MJGHIPO:~/.kube$ minikube status
minikube
type: Control Plane
host: Stopped
kubelet: Stopped
apiserver: Stopped
kubeconfig: Stopped
ubundu@DESKTOP-MJGHIPO:~/.kube$ minikube start
minikube v1.35.0 on Ubuntu 24.04 (amd64)
Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
▪ Using image docker.io/kubernetesui/dashboard:v2.7.0
▪ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
Some dashboard features require the metrics-server addon. To enable all features please run:
minikube addons enable metrics-server





Commands:

jenkins ALL=(ALL) NOPASSWD: ALL sudo systemctl restart ssh.service sudo systemctl restart sshd.service sudo apt update sudo apt install openssh-server sudo systemctl restart ssh sudo systemctl status ssh ls /etc/systemd/system/sshd.service or ls /usr/lib/systemd/system/sshd.service sudo systemctl daemon-reload sudo systemctl status ssh sudo systemctl restart ssh.service cat /home/david/.minikube/ca.crt | base64 -w 0; echo sudo chmod 666 /var/run/docker.sock

https://192.168.39.226:8443 sh

'kubectl apply -f deployment.yml --validate=false' minikube service my-service --url | xargs curl

Pipeline codes:

```
pipeline { agent
any


environment {
   DOCKER_CREDENTIALS = credentials('docker-hub-cred')  // Docker Hub Credentials ID
}


stages {    stage('SCM') {        steps {            git branch: 'main', url:
'<https://github.com/sahasranm/devop.git>'
      }
   }


   stage('Build')  {        steps {
sh "mvn clean"            sh "mvn
install"
      }
   }


   stage('Build Docker Image') {
      steps {            script {                sh 'docker build -t
sahasranm/devops .'
         }
      }
   }
```

```
    stage('Push to Docker Hub') {
      steps {
        script {
docker.withRegistry('<https://index.docker.io/v1/>', 'docker-hub-cred') {
sh 'docker push sahsaran/devopsday1'
          }
        }
      }
    }
}

}

pipeline { agent any

stages {
stage('SCM') { steps {
        git branch: 'main', url: '<https://github.com/ sahasranm/devops_simpleweb-app.git>'
      }
    }
    stage('Build-clean') {
steps{ sh 'mvn clean'
      }
    }
stage('Build-validate') { steps{
          sh 'mvn validate'
      }
    }
```

```
stage('Build-compile') {        steps{
                sh 'mvn compile'
        }
    }  stage('Build-test') {
steps{
                sh 'mvn test'
        }
    }
stage('Build-package') {
        steps{
                 sh 'mvn package'
        }
    }
    stage('build to images') {        steps {        script{            sh "docker build
-t sahasranm/webapplication ."
        }
        }
    }
    stage('docker push hub') {
        steps {        script{           withDockerRegistry(credentialsId: 'cred-2', url:
'<https://index.docker.io/v1/>') {            sh 'docker push praneshc/webapplication'
        }
        }
        }
    }
}}
```