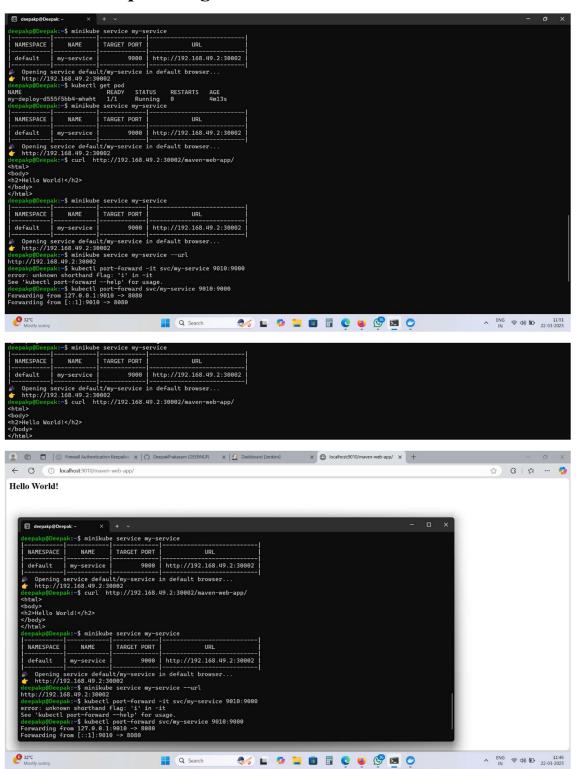
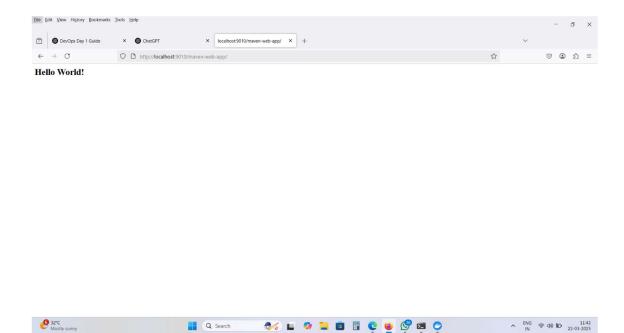
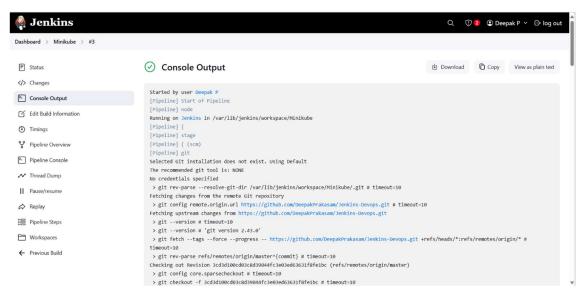
Day 6 Task: Final Java Project Minikube Deployment Minikube output images

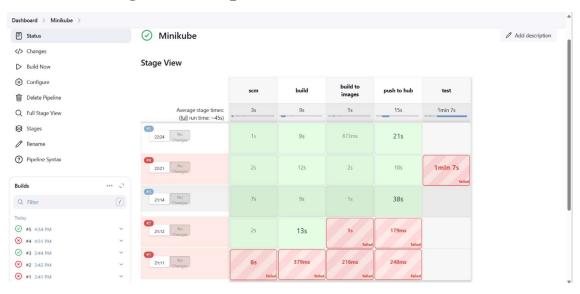




Minikube console output



Minikube stage view output



SSH-service output

```
| Islands | Society | Soci
```

Deployment and Service yaml code

```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: my-deploy
 labels:
  name: my-deploy
spec:
 replicas: 1
 selector:
  matchLabels:
   apptype: web-backend
 strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    apptype: web-backend
  spec:
   containers:
   - name: maven-web-app
    image: deepakp2003/simplewebapp:latest # <-- Fixed: Added
valid image name
    ports:
```

```
- containerPort: 9000 # <-- This should match `targetPort` in
the service
apiVersion: v1
kind: Service
metadata:
 name: my-service
 labels:
  app: my-service
spec:
 type: NodePort
ports:
  - port: 9000
   targetPort: 8080 # <-- Fixed: Matching the Deployment's
`containerPort`
   nodePort: 30002
 selector:
  apptype: web-backend
Jenkins Pipeline Script and Breakdown:
     pipeline {
  agent any
  stages {
```

```
// SCM Stage: Checkout the code from the Git repository
stage('scm') {
  steps {
     git url: 'https://github.com/DeepakPrakasam/Jenkins-Devops.git'
// Build Stage: Maven build steps
stage('build') {
  steps {
     sh "mvn clean"
     sh "mvn install"
// Docker Image Build Stage
stage('build to images') {
  steps {
     script {
       sh 'docker build -t deepakp2003/simpleapplication .'
// Push Docker Image to Docker Hub
stage('push to hub') {
  steps {
```

```
script {
            withDockerRegistry(credentialsId: 'Deepak Docker Cred', url:
'https://index.docker.io/v1/') {
              sh 'docker push deepakp2003/simpleapplication'
    // Test/Deploy Stage (Uncommented)
    stage('test') {
       steps {
         withKubeConfig(caCertificate: ", clusterName: ", contextName: ",
credentialsId: 'minikube', namespace: ", restrictKubeConfigAccess: false,
serverUrl: 'https://192.168.39.226:8443') {
            sh 'kubectl apply -f deployment.yml --validate=false'
```