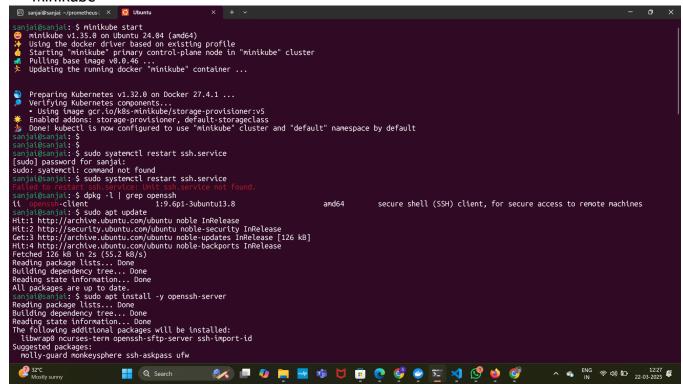
FINAL PROJECT DAY - 6 JAVA APPLICATION DEPLOYMENT IN MINIKUBE

deployment.yml

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deploy
  namespace: my-bank
 labels:
   name: my-deploy
spec:
  replicas: 1
  selector:
   matchLabels:
      apptype: web-backend
  strategy:
    type: RollingUpdate
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
      containers:
      - name: my-web
        image: 22csl258/mysimplewebapplication:tagname
        ports:
        - containerPort: 9001
apiVersion: v1
kind: Service
metadata:
  name: my-service
  namespace: my-bank
 labels:
   app: my-service
spec:
  type: NodePort
  ports:
    - port: 9001
      targetPort: 8080
```

nodePort: 30007
selector:
apptype: web-backend

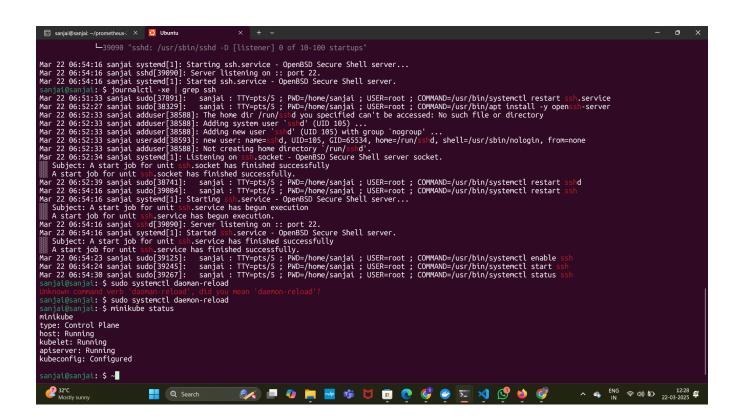
Minikube



```
Preparing to unpack .../opensch-sftp-server_INSA_6p1-3ubuntu13.8_amd64.deb ...
Unpacking opensch-sftp-server [19-6p1-3ubuntu13.8] ...
Selecting previously unselected package libwrage1-amd64.
Preparing to unpack .../librage2.76.q-33_amd64.deb ...
Selecting previously unselected package coensch-server.
Preparing to unpack .../librage3.76.q-33_amd64.deb ...
Selecting previously unselected package coensch-server.
Preparing to unpack .../previously unselected package coensch-server.

### Preparing to unpack .../prepared to the previously unselected package coensch-server.

### Preparing to unpack .../prepared to the previously unselected package unselected packag
```



```
Pipeline script - jenkins
JAVA Application pipeline
{
      agent any
      stages { stag
        ('scm') {
          steps {
        git branch: "
          }
        }
        stage('builb-clean') {
          steps {
            sh "mvn clean"
   }
   }
        stage('build-validate') {
          steps {
            sh "mvn validate"
   }
   }
        stage('build-com') {
          steps {
            sh "mvn compile"
   }
   }
```

```
stage('build-test') {
      steps {
        sh "mvn test"
}
}
    stage('build-install') {
      steps {
        sh "mvn package"
}
}
stage('build to images') {
      steps {
        script{
          sh 'docker build -t .'
        }
  }
}
stage('push to hub') {
      steps {
        script{
         withDockerRegistry(credentialsId: 'Docker_cred', url: 'https://index.docker.io/v1/') {
          sh 'docker push '
        }
      }
       }
```

```
}
    stage('Deploy App') {
      steps {
         withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'mukubeconfig_011', namespace: '', restrictKubeConfigAccess: false, serverUrl:
'https://192.168.49.2:8443') {
        sh 'kubectl apply -f deployment.yml --validate=false'
      }
    }
    }
  stage('Test') {
   steps {
     withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'mukubeconfig_011', namespace: '', restrictKubeConfigAccess: false, serverUrl:
'https://192.168.49.2:8443') {
    sh 'minikube service my-service --url | xargs curl'
 }
}
}
}
```

