Installing and setting up Kubernetes Minikube

```
1.mkdir my-docker-app
2.cd my-docker-app
3.touch Dockerfile
4.apt install npm
5.npm init -y
6.docker pull nithi1230/docker_hub:latest
7.docker build -t nithi1230/docker_hub:latest
8.docker ps
9.cd ..
10.minikube start
11.sudo nano nginx-deploymenr.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
name: my-app
spec:
replicas: 1
selector:
 matchLabels:
   app: my-app
 template:
  metadata:
   labels:
    app: my-app
  spec:
   containers:
   - name: my-app
    image: nithi1230/docker_hub:latest
    imagePullPolicy: IfNotPresent
    ports:
    - containerPort: 80
12.sudo nano service.yaml
apiVersion: v1
kind: Service
metadata:
name: my-app
namespace: default
type: NodePort # Ensures external access via a specific port
 selector:
  app: my-app
 ports:
  - protocol: TCP
   port: 80
              # Service port inside the cluster
   targetPort: 8080 # The container's port
```

nodePort: 30391 # Externally accessible port

14.kubectl apply -f service.yaml 15.kubectl get pods 16.kubectl get svc my-app 17.minikube service my-app --url 18.curl <url>







