TASK 3-MiniKube Deployment Task

Step 1: Start the minikube server

Starting the minikube using "minikube start "command

Step 2: Install kubectl

```
sudo apt install -y kubectl

Hit:1 https://download.docker.com/linux/ubuntu noble InRelease

Ign:2 https://pkg.jenkins.io/debian-stable binary/ InRelease

Hit:3 https://pkg.jenkins.io/debian-stable binary/ Release

Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease

Hit:5 http://archive.ubuntu.com/ubuntu noble InRelease

Hit:7 http://archive.ubuntu.com/ubuntu noble-updates InRelease

Hit:8 http://archive.ubuntu.com/ubuntu noble-backports InRelease

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

I package can be upgraded. Run 'apt list --upgradable' to see it.

Reading dependency tree... Done

Building dependency tree... Done

Reading state information... Done
```

Step 3: Create deployment

```
Now create a deployment named r2 using the image 'vishal15276/test1'
gcr.io/R85-minikube/Ricbase v0.0.46 e72c4cbe9b29 2 months ago 1.31GB
sharan@Sharan:~$ kubectl create deployment y --image=sharanprasath/test2 --port=80
deployment.apps/y created
sharan@Sharan:~$ kubectl get pods
```

Step 4: Verify the pods

Now give kubectl get pods to check if the container is running and wait until it starts running

NAME	READY	STATUS	RESTARTS	AGE
p-7db547f989-7srbn	0/1	ImagePullBackOff	Θ	2m32s
sp-bbf5f7896-tvxn7	0/1	ContainerCreating	0	9s

sharan@Sharan:~\$ kubectl get pods							
NAME	READY	STATUS	RESTARTS	AGE			
p-7db547f989-7srbn	1/1	Running	Θ	7m4s			
sp-bbf5f7896-tvxn7	1/1	Running	0	4m41s			

Step 5: Expose the deployment

Now expose the deployment using the expose command

```
sharan@Sharan:~$ kubectl expose deployment sp --port=80 --type=NodePort
```

Step 6: Accessing the website

Now give service command to check the ip address of the deployed image



Step 7: Output page

The output will be displayed as follows

