Assignment 1

- 1. Install minikube on your local machine and run the few commands of kubectl.
- 2. Try to give alias to kubectl as "k".
- 3. Try out "kubectl get pods" and "kubectl get nodes" and check what are the information that console is giving back.
- 4. Optional Try to create EKS configuration.(Note that this will cause you cost. Also remember to delete all services which you created for EKS)\

Steps to install minikube and run a few commands:

1. To install minikube use the following command:

winget install minikube

2. Commands:

a. minikube start:

```
jainiteLAPTOP-3C78KJHN ~ //main

jainiteLAPTOP-3C78KJHN ~ //main
```

b. kubectl get nodes:

```
jainil@LAPTOP-3C70KJHN ~ /main
) kubectl get nodes

NAME STATUS ROLES AGE VERSION
minikube Ready control-plane 4m55s v1.28.3

jainil@LAPTOP-3C70KJHN ~ /main
)
```

c. kubectl get pods:

```
jainil@LAPTOP-3C70KJHN ~
                                    main
     kubectl get pods
   No resources found in default namespace.
     jainil@LAPTOP-3C70KJHN
                                     main
d. kubectl get services:
   jainil@LAPTOP-3C70KJHN
                                 main
   kubectl get services
  NAME
               TYPE
                           CLUSTER-IP
                                       EXTERNAL-IP
                                                     PORT(S)
                                                              AGE
   kubernetes
               ClusterIP
                           10.96.0.1
                                                     443/TCP
                                                              5m36s
```

main

<none>

Steps to give alias to kubectl as "k".

1. Run command: function k { kubectl \$args } (Note: this will only work for one session)

```
main
jainil@LAPTOP-3C70KJHN
function k { kubectl $args
jainil@LAPTOP-3C70KJHN
                              #main
```

2. To make this function available every time you start PowerShell:

jainil@LAPTOP-3C70KJHN > ~

Open powershell profile in nodepad:

nodepad \$PROFILE

and then add:

function k { kubectl \$args }

```
oh-my-posh init pwsh --config "$env:POSH_THEMES_PATH\paradox.omp.json" | Invoke-Expression
function k { kubectl $args }
```

3. Then run kubectl commands by using it alias k:

```
jainil@LAPTOP-3C70KJHN ~ /main

k get nodes

NAME STATUS ROLES AGE VERSION

minikube Ready control-plane 8m17s v1.28.3

jainil@LAPTOP-3C70KJHN ~ /main

)
```

Trying out "kubectl get pods" and "kubectl get nodes" and check what are the information that console is giving back.:

1. kubectl get pods

2. kubectl get nodes

```
    jainil@LAPTOP-3C70KJHN ~ /main
    k get nodes

NAME STATUS ROLES AGE VERSION
    minikube Ready control-plane 9m49s v1.28.3

    jainil@LAPTOP-3C70KJHN ~ /main
}
```