Kubernetes Lab 6

1- Create Microservice called "redis-leader"

```
apiVersion: v1
kind: Namespace
metadata:
   name: dev
   labels:
        name: dev
apiVersion: apps/v1
```

```
kind: Deployment
metadata:
 name: redis-leader
 namespace: dev
spec:
  replicas: 1
 selector:
   matchLabels:
    name: redis-leader
  template:
   metadata:
      labels:
      name: redis-leader
    spec:
      containers:
      - image: "docker.io/redis:6.0.5"
       name: redis-leader
       ports:
        - containerPort: 6379
```

```
apiVersion: v1
kind: Service
metadata:
   name: redis-leader
   namespace: dev
spec:
   selector:
    name: redis-leader
   ports:
    - protocol: TCP
        port: 6379
        targetPort: 6379
```

2- Create Microserve called "redis-follower"

```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: redis-follower
 namespace: dev
spec:
  replicas: 2
  selector:
   matchLabels:
    name: redis-follower
  template:
   metadata:
     labels:
     name: redis-follower
    spec:
     containers:
      - image: "gcr.io/google samples/gb-redis-follower:v2"
       name: redis-follower
       ports:
       - containerPort: 6379
```

```
apiVersion: v1
kind: Service
metadata:
   name: redis-follower
   namespace: dev
spec:
   selector:
    name: redis-follower
   ports:
    - protocol: TCP
        port: 6379
        targetPort: 6379
```

3- Create Microservice called "frontend"

```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: frontend
 namespace: dev
spec:
  replicas: 3
  selector:
   matchLabels:
    name: frontend
  template:
   metadata:
     labels:
     name: frontend
    spec:
     containers:
      - name: frontend
       image: "gcr.io/google samples/gb-frontend:v5"
       env:
       - name: GET HOSTS FROM
        value: "dns"
       ports:
       - containerPort: 80
```

```
apiVersion: v1
kind: Service
metadata:
   name: frontend
   namespace: dev
spec:
   type: NodePort
   selector:
        name: frontend
ports:
        - protocol: TCP
        port: 80
        targetPort: 80
        nodePort: 30080
```

4- After creating the 3 microservice, you should able to access to front end service url and take screenshot of the output.



