Question 1

Creating a YAML file named nginx-deploy.yaml

```
touch nginx-deploy.yaml
```

Creating 3 replicas of nginx deployment

```
spec:
   replicas: 3
   selector:
```

Making container listen on port: 80

```
spec:
    containers:
    - name: nginx
    image: nginx:latest
    ports:
    - containerPort: 80
```

Setting deployment name as nginx-deploy

```
apiVersion: apps/v1
kind: Deployment
metadata:
    name: nginx-deploy
    labels:
    app: nginx
    role: webserver
```

Adding labels as role: webserver and app: nginx

Question 1 1

```
apiVersion: apps/v1
kind: Deployment
metadata:
   name: nginx-deploy
   labels:
   app: nginx
   role: webserver
```

Apply the changes:

```
kubectl apply -f nginx-deploy.yaml
```

```
controlplane $ touch nginx-deploy.yml
controlplane $ vim nginx-deploy.yml
controlplane $ kubectl apply -f nginx-deploy.yml
deployment.apps/nginx-deploy created
controlplane $
```

After successful creating of the deployment verifying the labels using command:

```
kubectl get deployments --show-labels
```

```
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controlplane $ kubectl get deployments --show-labels

NAME READY UP-TO-DATE AVAILABLE AGE LABELS

nginx-deploy 3/3 3 3 110s app=nginx,role=webserver

controlplane $
```

Question 1 2