1- How many pods exist on the system?

Answer – kubectl get pods
Output -- No resources found in default namespace.

2- How many Nodes exist on the system?

Answer – kubectl get nodes
Output – two nodes controlplane and node01

3- Create a new pod with the nginx image.
Image name: nginx

Answer – kubectl run nginx-pod –image=nginx
Output -- pod/nginx-pod created

4- Which nodes are these pods placed on?

Answer -- kubectl get pods -A -o wide
Output -- default nginx-pod 1/1 Running 0 2m47s 192.168.1.4 node01 <none>

5- Create pod from the below yaml using kubectl apply command

```
apiVersion: v1
kind: Pod
metadata:
  name: webapp
  namespace: default
spec:
  containers:
  - image: nginx
    imagePullPolicy: Always
    name: nginx
  - image: agentx
    imagePullPolicy: Always
    name: agentx
```

Anwer – vim web-app.yaml and copy and paste

6- How many containers are part of the pod `webapp`

Answer -- webapp 1/2 ErrImagePull 0 11s
So two container

7- What images are used in the new `webapp` pod?

Answer -- kubectl describe pod webapp nginx & agentx

8- What is the state of the container `agentx` in the pod `webapp`

Successfully pulled image "nginx" in 327ms (327ms including waiting).
Failed to pull image "agentx": failed to pull and unpack image

9- Why do you think the container `agentx` in pod `webapp` is in error?

Answer the name is wrong in dockerhub

10- Delete the `webapp` Pod.

Answer -- kubectl delete pod webapp
Output – pod deleted

11- Create a new pod with the name `redis` and with the image `redis123`.

- Name: redis
- Image Name: redis123

Answer -- kubectl run redis --image=redis123
Output -- pod/redis created

12- Now change the image on this pod to `redis`.
Once done, the pod should be in a `running` state.

Answer -- kubectl set image pod/redis redis=redis

13- Create a pod called `my-pod` of image `nginx:alpine`

Answer -- kubectl run my-pod --image=nginx:alpine

14- Delete the pod called `my-pod`

Answer -- kubectl delete pod my-pod