1- How many ConfigMaps exist in the environment?

2- Create a new ConfigMap Use the spec given below.

ConfigName Name: webapp-config-map

Data: APP_COLOR=darkblue

3- Create a webapp-color POD with nginx image and use the created ConfigMap

4- How many Secrets exist on the system?

5- How many secrets are defined in the default-token secret?

6- create a POD called db-pod with the image mysql:5.7 then check the POD status

7- why the db-pod status not ready

8- Create a new secret named db-secret with the data given below.

Secret Name: db-secret

Secret 1: MYSQL_DATABASE=sql01

Secret 2: MYSQL_USER=user1

Secret3: MYSQL_PASSWORD=password

Secret 4: MYSQL_ROOT_PASSWORD=password123

9- Configure db-pod to load environment variables from the newly created secret.

Delete and recreate the pod if required.

10- Create a multi-container pod with 2 containers.

Name: yellow

Container 1 Name: lemon

Container 1 Image: busybox

Container 2 Name: gold

Container 2 Image: redis

11- Create a pod red with redis image and use an initContainer that uses the busybox image and sleeps for 20 seconds

12- Create a pod named print-envars-greeting.

1. Configure spec as, the container name should be print-env-container and use bash image.
2. Create three environment variables:
   a. GREETING and its value should be "Welcome to"
   b. COMPANY and its value should be "DevOps"

c. `GROUP` and its value should be "`Industries`"

4. Use command to echo `["$(GREETING) $(COMPANY) $(GROUP)"]` message.
5. You can check the output using `<kubctl logs -f [ pod-name ]>` command.

13- Where is the default kubeconfig file located in the current environment?
14- How many clusters are defined in the default kubeconfig file?
15- What is the user configured in the current context?

16- Create a `Persistent Volume` with the given specification.

Volume Name: pv-log
Storage: 100Mi
Access Modes: ReadWriteMany
Host Path: /pv/log

17- Create a `Persistent Volume Claim` with the given specification.

Volume Name: claim-log-1
Storage Request: 50Mi
Access Modes: ReadWriteMany

18- Create a `webapp` pod to use the persistent volume claim as its storage.

Name: webapp
Image Name: nginx
Volume: PersistentVolumeClaim=claim-log-1
Volume Mount: /var/log/nginx