*echo 'source <(kubectl completion bash)' >>~/.bashrc*

*echo 'alias k=kubectl' >>~/.bashrc*

*Question 1*

*1. Create a Deployment  with the following spec:*

*- use the image nginx and name the deployment as nginx.*

*- image should be tag 4.*

*- label the deployment app: frontend.*

*Question 2:*

*Create a Pod with following spec.*

*- the pod should mount a volume under /opt/xxxxx*

*- the persistent volume claim should use a physical volume which last for the lifetime of the pod.*

*Question 3:*

*There is a pod with an errored container.*

*- find the pod with error*

*- troubleshoot the error and make sure the container in the pod is up and running.*

*Question 4:*

*Create a pod with nginx image and which requests 300Mi cpu and memory as 256Mi It should be placed on node01.*

*Question 5:*

*Expose the deployment webapp in namespace exam*

*- the deployment should be accessible within the cluster.*

*- the application should run on port 8080.*

*Question 6:*

*Identify the pod with high CPU utilization and redirect the output to a file.*

*- The file format should be "namespace/po*

*Question 7:*

*There is a problem in a pod identify the pod and redirect the pod related error events to a file in /opt/.kus0201.txt*

*Question 8*

*A deployment has issues troubleshoot to bring all pods into Running state.*

*Question 9:*

*Create a deployment from nginx1.16 image named kusoo1 , upgrade the deployment to nginx version 1.17 and rollback the deployment to the recent version*

*Question 10:*

*Create a pod with following specs.*

*- it should have nginx as image and  mount a secret under /etc/super-secret*

*- it should setup environment variable ENVIRONMENT with the value of the configmap my-config.*

*- create my-config configmap with specs var1=val2.*

*- create the needed secret with the specs given in file /opt/kus001.txt*

*Question 1:*

*Taint node01 with given key = tier value= frontend effect=NoSchedule .*

*Create a pod with following specs.*

*- pod should mount a given pvc under /etc/kus201.txt*

*- pod should be scheduled on node01.*

*Question 2:*

*A given deployment is running deployment/xyz. Store the deployment details in json or yaml format in file /opt/CKAD0003/kus20010.txt*

*Question 3:*

*Create a namespace my-namespace. Deploy a pod in this namespace with capability to run system time as root.*

*image=nginx*

*Question 4:*

*There are 2 pods, db and proxy. There is a third pod webapp. You have to allow traffic to proxy and db pods only from webapp pod. All network policies are in place and do not delete/modify any network policies to achieve the desired result.*

*Question 5:*

*Create a job with following specs:*

*- job should use the image "some custom image"*

*- it should terminate if not executed within 60 seconds.*

*Question 6:*

*Create a pod with following specs:*

*- label it as app=v1 .*

*- set environment variable as "some env variable"*

*Question 7:*

*There is a deployment running. update the deployment with following spec:*

*- change replica set to 3.*

*- run the deployment as service account "myuser*

*- create the SA if not exists.*

*Question 8:*

*Create a pod with a main container and a sidecar container with following specs.*

*- main container should run the image nginx.*

*- main container should run the command "some long command with loop to generate logs"*

*- sidecar container should run the image busybox.*

*- sidecar container should mount a configmap with given spec under file /opt/kusl0210.txt.*

*- sidecar container should be able to read the logs from main container and process it.*

*Create a Pod with main container busybox and which executes this “while true; do echo ‘Hi I am from Main container’ >> /var/log/index.html; sleep 5; done” and with sidecar container with nginx image which exposes on port 80. Use emptyDir Volume and mount this volume on path /var/log for busybox and on path /usr/share/nginx/html for nginx container. Verify both containers are running.*

*Question 9:*

*Cronjob with given specs. the job should exit if not completed within 20 seconds.*

*Question 10:*

*Create a namespace named finance and create a deployment named kusl0229 using image nginx and it should have 7 replicas running*