Lab 9

Q1. Create a pod using readiness.yml, check if the pod is created.

Q2. Get the description of the pod and notice the readiness probe.

Q3. Change the readiness probe parameters, recreate the pod, and notice the effect of that. Make sure that you understand the purpose of using readiness probes and how they work.

Q4. Create a pod using liveness.yml, check if the pod is created.

Q5. Get the description of the pod and notice the liveness probe.

Q6. Change the liveness probe parameters, recreate the pod, and notice the effect of that. Make sure that you understand the purpose of using liveness probes and how they work.

Q7. Create a pod using startup.yml, check if the pod is created.

Q8. Get the description of the pod and notice the startup probe.

Q9. Change the startup probe parameters, recreate the pod, and notice the effect of that. Make sure that you understand the purpose of using startup probes and how they work.

Hint: [This reference](https://kubernetes.io/docs/tasks/configure-pod-container/configure-liveness-readiness-startup-probes/) might help in answering the above questions.

Q10. Create a pod using crash-loop-back.yml

Q11. Observe the status of the pod and the logs.

Q12. Create a job using job.yml and notice the job, pod, and the logs.

Q13. Create a cronjob using cronjob.yml and notice the job, pod and the logs.

Q14. Go to [this tutorial](https://kubernetes.io/docs/tutorials/stateful-application/basic-stateful-set/)

Mainly show the following points:

* 1. How to create a StatefulSet
  2. How a StatefulSet manages its Pods
  3. How to delete a StatefulSet
  4. How to scale a StatefulSet