# Kubernetes Deep Dive Week 1 – Class Exercise

1. Create an application namespace
2. Set the new namespace to your default context namespace
3. Deploy a simple web app to your local Kubernetes cluster
   1. Download the manifest file from Teams
   2. Edit the file setting the desired number of replicas, service type, image repo + tag (jruzia/k8s-deep-dive-1:latest)
   3. Deploy using the kubectl apply command
4. View the status of the Pods, Deployments, Service created by the manifest file
5. Navigate to the application. Refresh the page, note that each Pod will display a unique code for its instance
6. Continue to refresh and note the unique id sometimes changes
   1. Demonstrates the Kubernetes Service load-balancing to available pods
7. Delete one of the running pods and observe what happens

8. Edit the number of replicas

* + Using kubectl edit
  + Using kubectl scale

9. Select using labels

10. Delete Deployment and observe what happens

11. Delete Namespace and observe what happens