CCA - Docker Module 2 Gradable Task

Sr. No.	Tasks
1.	Create private docker registry named as “registry” using image ‘registry:2’, also forward its default port to port no. 20050 and push ubuntu image with name myub on your local registry you have created.
2.	Create a Docker image using Dockerfile taking "nginx:alpine" as a base image whose web page must contain a message "Welcome to my webpage". Name the Docker image as "mywebimg1". Additionally, push this image to a local Docker registry named "registry" (use the Docker image "registry:2" to set up the local registry hosting on its default port). Also run a container named "app1" from the image you pushed on your local registry and host it in the port number 20050.
3.	Create a volume called ‘myvol1’ and map it to container with image mysql:5.6, name of the container must be ‘datavol1’ and create database with name ‘database1’ using environment variables, map the volume to container’s directory where database is stored.
4.	Build an image for container such that user simon’s home directory should be /guest/user/simon, Image name should be ‘simonuser’ and run a container from that image by name ‘guestuser’. Create a tarball of the image you created and store it in /newimages by the name ‘myimg.tar’.
5.	Create a new bridge network with name ‘mybr1’ and run ‘container1’ and ‘container2’ respectively on mybr1 using busybox image and try to ping each other.
6.	Run a container named "myenvs" using image “ubuntu/nginx” in which add the following environment variables. class=cca trainer=ashutosh subject=kucl
7.	Create a custom image named "mypythonapp" using "docker.io/python" as a base image which should print "Hello World!!!" when you run it. Then create a private Docker registry named as "dev-registry" using the "registry:2" image. Configure it to listen on port 5000 (default) and push a custom-built Python image named "mypythonapp" to this registry.