**Docker Tasks list**

**Day 1**

1. **Run hello-world docker container and observe the container status**
2. **Check the docker images and write down the size of hello-world image**
3. **Run the nginx container with name as nginx1 and expose it on 8080 port on docker host**
4. **Explain docker container lifecycle**
5. **Explain what happens when you run the docker container**
6. **Explain the Docker architecture**

**Day 2**

1. **write a Docker file for NodeJS application – expressjs**

**Day 3**

1. **create a MySQL dB container from official MySQL image**
2. **login into SQL container and create a table**
3. **try to create a persisted volume in MySQL container and mount that to other**

**Day 4**

1. **Create an alpine container in interactive mode and install python**
2. **Create a ubuntu container with sleep 1d and then login using exec and install python**
3. **Create a postgres container with username panoramic and password as trekking. Try logging in and show the databases (query for psql)**
4. **Try to create a docker file which runs php info page, use ARG and ENV wherever appropriate on 1. Apache, 2. nginx**
5. **Create a Jenkins image by creating an own docker file**
6. **Create nop commerce and MySQL server and try to make them work by configuring**

**Day 5**

1. **Multi stage Docker file and push images to azure/aws registries and docker compose file for following applications**
   1. **nopCommerce**
   2. **spring pet clinic**
   3. **student courses register**
2. **Docker compose file for game of life**
3. **Running containers with specific User**