**Docker Assignment 2**

1. Difference between virtualization and containerization?

Ans: Virtualization enables you to run multiple operating systems on the hardware of a single physical server, while containerization enables you to deploy multiple applications using the same operating system on a single virtual machine or server Virtualization enables you to run multiple operating systems on the hardware of a single physical server, while containerization enables you to deploy multiple applications using the same operating system on a single virtual machine or server

1. What is a Docker hub?

Ans: Docker Hub is a service provided by Docker for finding and sharing container images with your team. It is the world’s largest repository of container images with an array of content sources including container community developers.

1. Tell us something about docker-compose?

Ans: Compose is a tool for defining and running multi-container Docker applications. With Compose, you use a YAML file to configure your application's services.

1. What is the docker swarm?

ANs: Docker swarm is a container orchestration tool, meaning that it allows the user to manage multiple containers deployed across multiple host machines.

1. Explain the lifecycle of the docker container?

Ans: Docker Container Lifecycle Management: Create, Run, Pause, Stop And Delete. Docker is a containerization platform for developing, shipping, and running applications inside containers.

1. How to check the docker client and docker server version?

Ans:

1. How do you get the number of containers running, paused, and stopped?

Ans: **docker -v**

1. If you vaguely remember the command and you’d like to confirm it, how will you get help on that particular command?

Ans: Use this command for help $ docker --help

1. How to log in to the docker repository?

Ans: $ docker login command can be used.

1. How do you create a docker container from an image?

Ans: $ docker run -it -d image\_name