**Practical No: 3**

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**Aim Working with Docker**

**Description:**

Give Overview of Docker

Docker is a containerization platform that allows developers to package their applications into portable, self-contained containers. Docker containers are lightweight, isolated, and can run on any operating system or cloud platform, making it easier to develop, deploy, and manage applications across different environments.

3 a) **Method 1: To pull and push images using docker**

**Code & Output:**

1. **create Docker Hub account (sign up)**
2. **login to** [**https://labs.play-with-docker.com/**](https://labs.play-with-docker.com/)
3. **add new instance  
   Graphical user interface, application

   Description automatically generated**
4. **perform following**

**To pull and push images using docker**

Command: to check docker version

docker –version

Text

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**Command: to pull readymade image**

**docker pull rocker/verse**

**Text

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**Command: to check images in docker**

**docker images**

**A screenshot of a computer

Description automatically generated with medium confidence**

**Now Login to docker hub and create repository**

**Output:**

**Graphical user interface, text, application, email

Description automatically generated**

**Click on Create button**

**Now check repository created**

**Graphical user interface, text, application

Description automatically generated**

**Command: to login to your docker account**

**docker login –username=ninadstudy**

**password:**

**A screenshot of a computer

Description automatically generated with medium confidence**

**Command : to tag image**

**docker tag 8c3e4e2c3e kbdocker11/repo1:firsttry**

**Text

Description automatically generated**

**Command: to push image to docker hub account**

**docker push kbdocker11/repo1:firsttry**

**Text

Description automatically generated**

**Check it in docker hub now**

**Graphical user interface, application

Description automatically generated**

**Click on tags and check**

**Graphical user interface, application

Description automatically generated**

**3 b) Method 2:Build an image then push it to docker and run it**

**Code & Output:**

**Command : to create docker file**

**1. cat > Dockerfile <<EOF**

**2. FROM busybox**

**3. CMD echo "Hello Ninad."**

**4. EOF**

**Text

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**Command : to build image from docker file**

**dokcer build –t ninadstudy/repo2**

**Text

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**Command: to check docker images**

**docker images**

**A screenshot of a computer

Description automatically generated with medium confidence**

**Command: to push image to docker hub**

**docker push ninadstudy/repo2.**

**A screenshot of a computer

Description automatically generated with medium confidence**

**Now check it on docker hub**

**Graphical user interface, application

Description automatically generated with medium confidence**