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**PRACTICAL – 2B**

**Java:-**

student@student:~$ lsb\_release -a

No LSB modules are available.

Distributor ID: Ubuntu

Description: Ubuntu 22.04.5 LTS

Release: 22.04

Codename: jammy

student@student:~$ sudo apt-get update

[sudo] password for student:

Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease

Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease

Hit:3 http://security.ubuntu.com/ubuntu jammy-security InRelease

Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease

Hit:5 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease

Hit:6 https://download.docker.com/linux/ubuntu jammy InRelease

Hit:7 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy InRelease

Hit:8 https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/5.0 InRelease

Reading package lists... Done

W: https://repo.mongodb.org/apt/ubuntu/dists/focal/mongodb-org/5.0/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.

student@student:~$ sudo apt install docker.io

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

bridge-utils containerd pigz runc ubuntu-fan

The following packages will be REMOVED:

docker-ce-cli

The following NEW packages will be installed:

bridge-utils containerd docker.io pigz runc ubuntu-fan

0 upgraded, 6 newly installed, 1 to remove and 23 not upgraded.

Need to get 78.2 MB/78.3 MB of archives.

After this operation, 258 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4 kB]

Get:2 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.12-0ubuntu2~22.04.1 [8,405 kB]

Get:3 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.24-0ubuntu1~22.04.1 [37.3 MB]

Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 26.1.3-0ubuntu1~22.04.1 [32.5 MB]

Get:5 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]

Fetched 78.2 MB in 5min 31s (237 kB/s)

Preconfiguring packages ...

(Reading database ... 221478 files and directories currently installed.)

Removing docker-ce-cli (5:27.5.1-1~ubuntu.22.04~jammy) ...

Preparing to unpack .../0-pigz\_2.6-1\_amd64.deb ...

Unpacking pigz (2.6-1) ...

Selecting previously unselected package bridge-utils.

Preparing to unpack .../1-bridge-utils\_1.7-1ubuntu3\_amd64.deb ...

Unpacking bridge-utils (1.7-1ubuntu3) ...

Selecting previously unselected package runc.

Preparing to unpack .../2-runc\_1.1.12-0ubuntu2~22.04.1\_amd64.deb ...

Unpacking runc (1.1.12-0ubuntu2~22.04.1) ...

Selecting previously unselected package containerd.

Preparing to unpack .../3-containerd\_1.7.24-0ubuntu1~22.04.1\_amd64.deb ...

Unpacking containerd (1.7.24-0ubuntu1~22.04.1) ...

Selecting previously unselected package docker.io.

Preparing to unpack .../4-docker.io\_26.1.3-0ubuntu1~22.04.1\_amd64.deb ...

Unpacking docker.io (1.7.24-0ubuntu1~22.04.1) ...

Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.

Setting up ubuntu-fan (0.12.16) ...

Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.

Setting up docker.io (26.1.3-0ubuntu1~22.04.1) ...

Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.

Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.

Processing triggers for man-db (2.10.2-1) ...

student@student:~$ sudo usermod -aG docker $USER

student@student:~$ sudo docker pull openjdk

Using default tag: latest

latest: Pulling from library/openjdk

197c1adcd755: Pull complete

57b698b7af4b: Pull complete

95a27dbe0150: Pull complete

Digest: sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f

Status: Downloaded newer image for openjdk:latest

docker.io/library/openjdk:latest

student@student:~$ jshell

Feb 14, 2025 9:20:00 AM java.util.prefs.FileSystemPreferences$1 run

INFO: Created user preferences directory.

| Welcome to JShell -- Version 11.0.26

| For an introduction type: /help intro

jshell> int mul=190\*190

mul ==> 36100

jshell> System.out.println(mul)

36100

jshell> System.out.println("NAMASKAR!!")

NAMASKAR!!

jshell> /exit

| Goodbye

Python:-

student@student:~$ sudo docker pull python

[sudo] password for student:

Using default tag: latest

latest: Pulling from library/python

42c54e83066f: Pull complete

d49ecfcc3fa9: Pull complete

b2eee27aad58: Pull complete

Digest: sha256:08471c63c5fdf2644adc142a7fa8d0290eb405cda14c473fbe5b4cd0933af601

Status: Downloaded newer image for python:latest

docker.io/library/python:latest

student@student:~$ python3

Python 3.10.12 (main, Jan 17 2025, 14:35:34) [GCC 11.4.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>> print("NAMASKAR!!");

NAMASKAR!!

>>> a=190

>>> b=190

>>> print(a\*b);

36100