CSI3007 – ADVANCED PYTHON PROGRAMMING LAB ACTIVITY – 20

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INSTALLATION OF DOCKER DESKTOP:

```
matlab@sjt318scope018:~$ sudo apt install gnome-terminal [sudo] password for matlab:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
gnome-terminal is already the newest version (3.44.0-1ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 23 not upgraded.
matlab@sjt318scope018:~$
```

```
matlab@sjt318scope018:~$ sudo apt-get install ca-certificates curl gnupg lsb-release
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
lsb-release is already the newest version (11.1.0ubuntu4).
ca-certificates is already the newest version (20240203~22.04.1).
curl is already the newest version (7.81.0-1ubuntu1.21).
gnupg is already the newest version (2.2.27-3ubuntu2.4).
0 upgraded, 0 newly installed, 0 to remove and 59 not upgraded.
matlab@sjt318scope018:~$
```

```
matlab@sjt318scope018:-$ sudo nkdir -p /etc/apt/keyrings
matlab@sjt318scope018:-$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
File '/etc/apt/keyrings/docker.gpg' exists. Overwrite? (y/N) y
matlab@sjt318scope018:-$ echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.
d/docker.list > /dev/null
matlab@sjt318scope018:-$ |
```

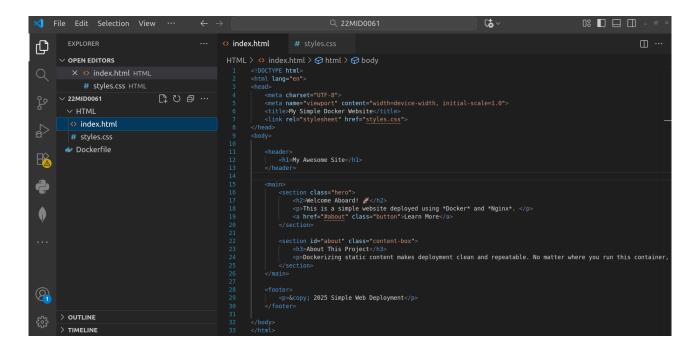
Launching Docker Desktop:

```
Reading package lists... Done
Reading package lists... Done
Reading package lists... Done
Reading state information... Reading state informati
```

```
natlab@sjt318scope018:~$ sudo systemctl start docker
matlab@sjt318scope018:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:56433a6be3fda188089fb548eae3d91df3ed0d6589f7c2656121b911198df065
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.
o try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
natlab@sjt318scope018:~$
```

VSCODE SETUP:



```
📢 File Edit Selection View …
                                                                                                                                                                                                                  08 🔲 🗎 🗆 - 💌
                                    ... <> index.html # styles.css
C
         \vee OPEN EDITORS
               ∨ 22MID0061
                                                                                       margin: 0;
padding: 0;
background-color: ■#f4f4f9;
color: □#333;
line-height: 1.6;
                                             다 건 🗗 …
         # styles.css
                                                                                  /* Header Styling */
header {
    background-color: ■#007bff;
    color: ■white;
    padding: 20px 0;
    text-align: center;
    box-shadow: 0 2px 4px □rgba(0, 0, 0, 0.1);
ð
 •
                                                                                  header h1 {
   margin: 0;
   font-size: 2.5em;
                                                                                  /* Main Content Area */
main {
    max-width: 900px;
    margin: 40px auto;
    padding: 0 20px;
> outline
         > TIMELINE
```

OUTPUT:

