LAB 06 : Develop single containerised applicⁿ using docker (WINDOWS)

- Docker : open source platform that enables you to build ship & run applications inside lightweight & portable containers.

→ it's a tool that is used to package your code dependencies & runtime environment into a single container.

*] Steps : 01 Using Docker application.

→ Download docker (desktop) from browser
→ In command prompt, type wsl → to check if present, otherwise install wsl

wsl --install

→ Turn on wsl in control panel through turn windows feature on or off

(TUTORIAL in docker app)

→ Install docker
→ click on student → continue
→ click on 'what's the container' tutorial
→ In browser → type github.com/docker/welcome-to-docker in browser (repository.)
→ copy the code link
→ In cmd, create directory & in that, clone the repo.

git clone <link>

→ cd welcome-to-docker (present in that repo)

→ ~~docker build -t welcome-to-docker~~ ☆ A

(then in (images → docker) app → run → Options → port no then run / browse)

~~or docker run (-d) -p 5000:5000 docker/welcome-to-docker~~
9999:80

→ Now go to docker desktop, click on the welcome-to-docker link appeared after running.

(WIN CMD)

1] to configure manually,

⇒ Go to cmd

→ make a directory [mkdir <a>] ← docker-proj

→ cd < a >

→ notepad app.py // Flask enabled, if not, configure it first.

Paste the python code given in Lab.

3 file → 1) app.py 2) Requirements.txt
3) Dockerfile. (GitHub).

Go to folder location & type cmd

> ren Dockerfile.txt Dockerfile

> docker build -t docker-proj . ☆
(need to wait for building)

> docker run -p 5000:5000 docker-proj
In web localhost o/p.

Need to go to docker desktop & open the file <your project name>
docker-proj

→ Gives Hello Docker! as output.