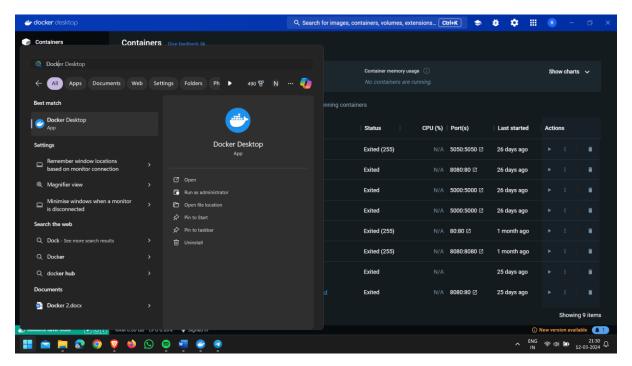
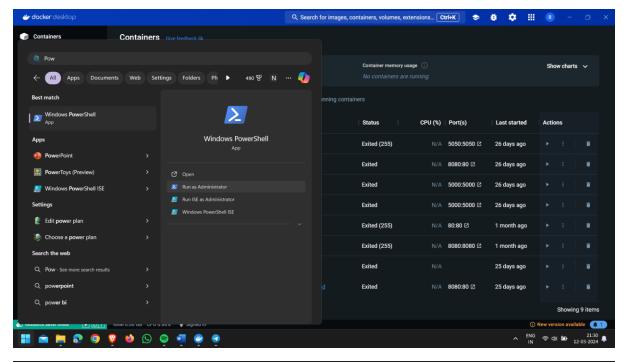
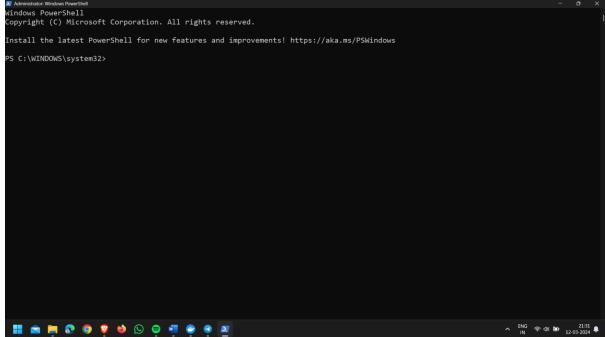
- N. Bhanu Satya Venkatachalam
 - 4. Explore Docker Hub for images that will run a website and get them into your development environment and practice
 - 1. Open Docker Desktop



2. Now Open Powershell in Administrator Mode





3. Now to check info use following command

docker info - Displays system wide information about Docker.

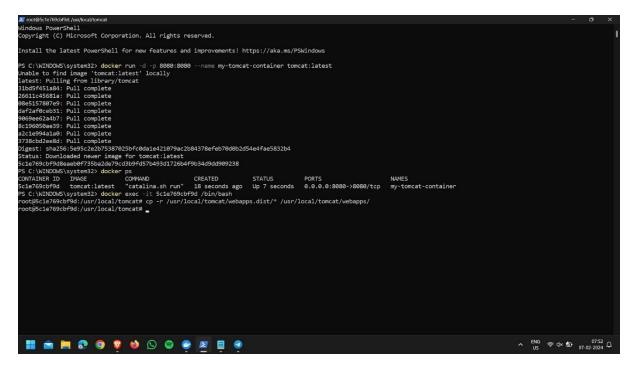
- 4. docker ps: Lists the runnin' Docker containers.
- 5. To pull an Image we can use following Command

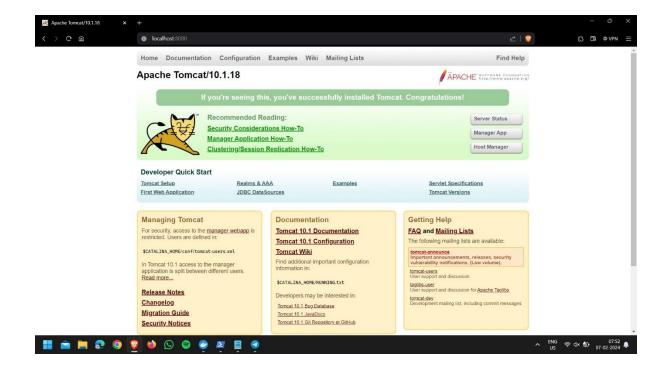
docker pull <image_name>

for example for tomcat image

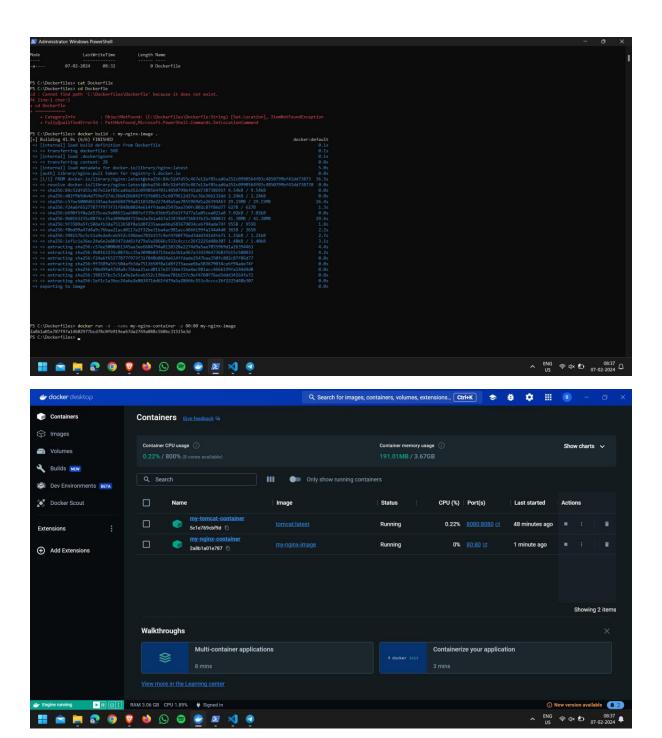
6. To run a pulled image

Use command docker run -d -p 8080:8080 -name <image_name>





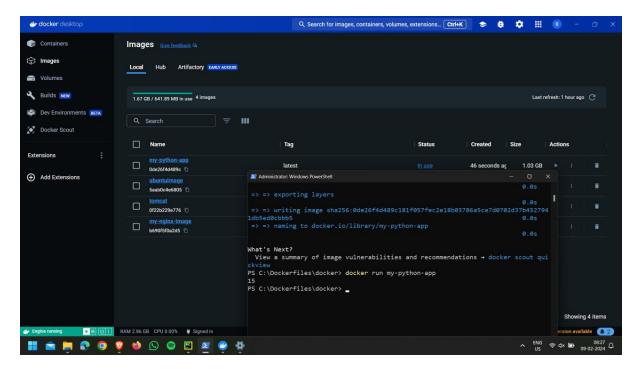
- 7. To build a container using existing image use following command
- **docker build t <image_name> .:** Builds a Docker image from a Dockerfile in the current directory.
 - 8. To create a nginx container



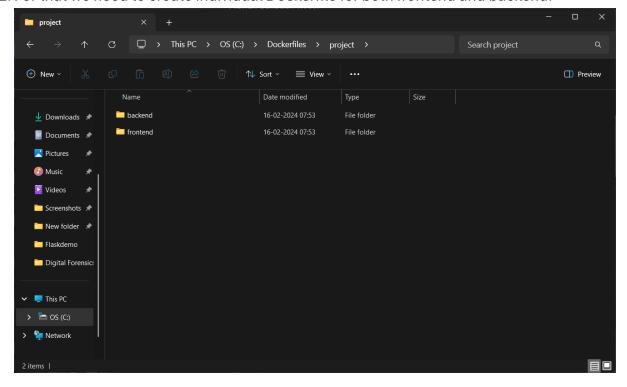
- 9. We can also use Dockerfile to automate the process of above steps
- 10. Example of Dockerfile



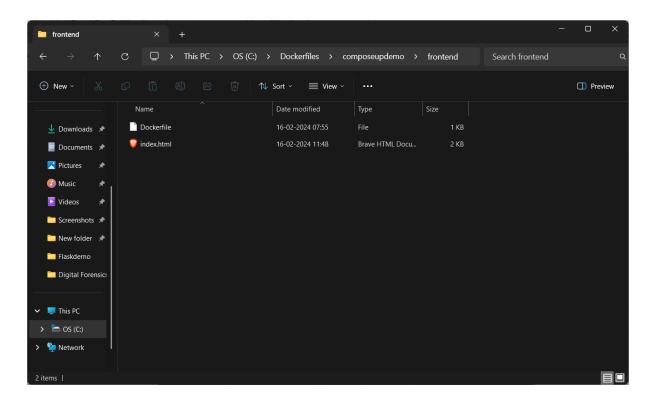
After running the image it runs the app.py file to give output.



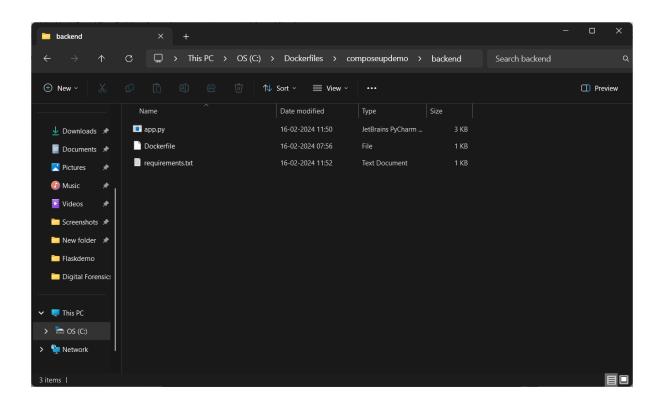
- 11. To create a development environment we can use **docker compose** to integrate both frontend and backend serves.
- 12. For that we need to create individual Dockerfile for both frontend and backend.



Frontend

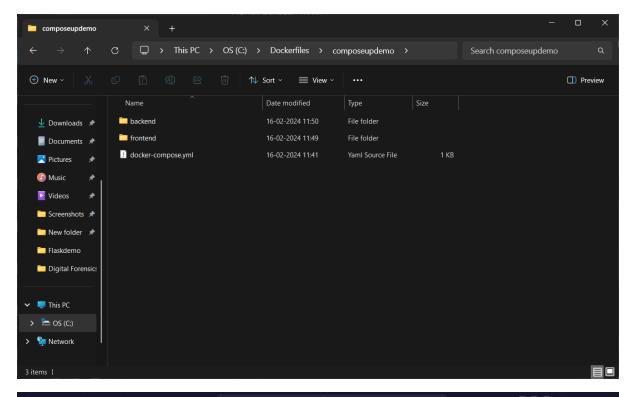


Backend



13. Compose.yml file

Create a compose.yml file.



```
| File | Edit | Selection | View | Go | Run | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ..
```

14. After that use this to build image for both frontend and backend

docker build t <i mage_name>.

15. Now use this command

docker-compose up

16. After completion the outputThis shows the containers running and the websites.

