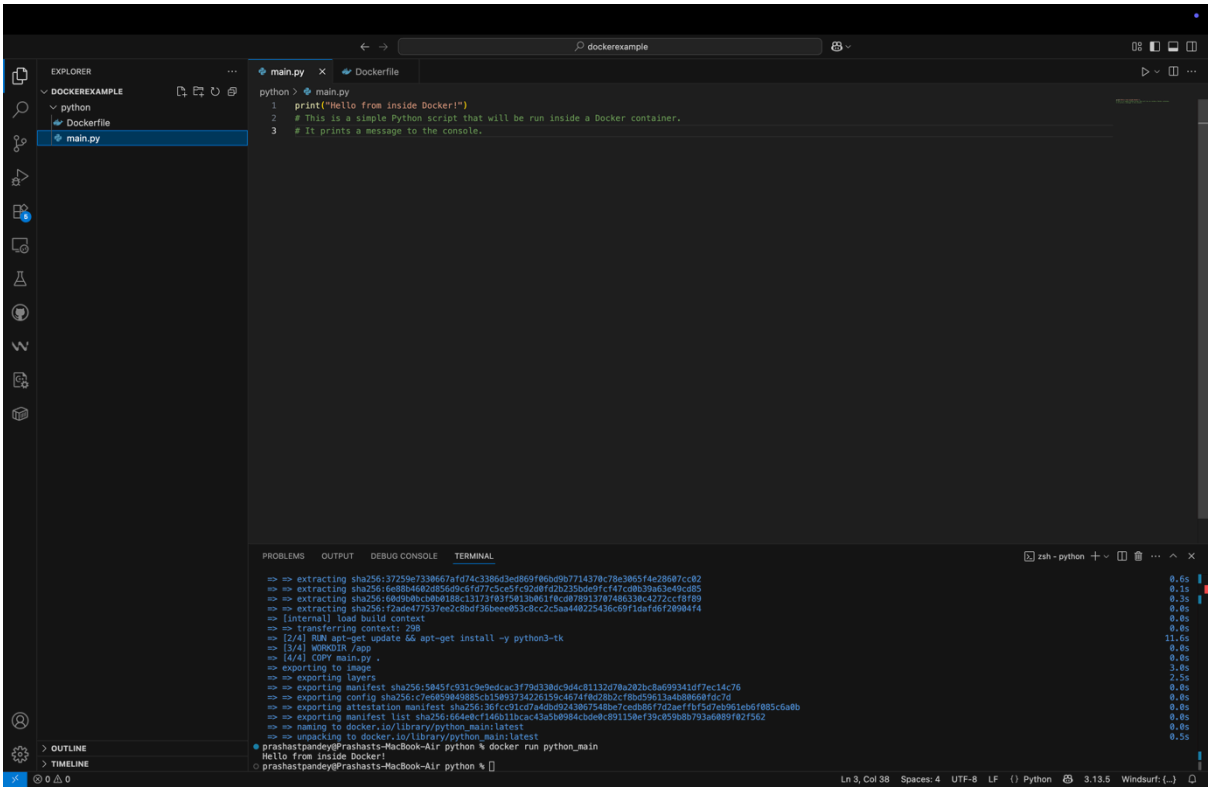
Docker Practical -1

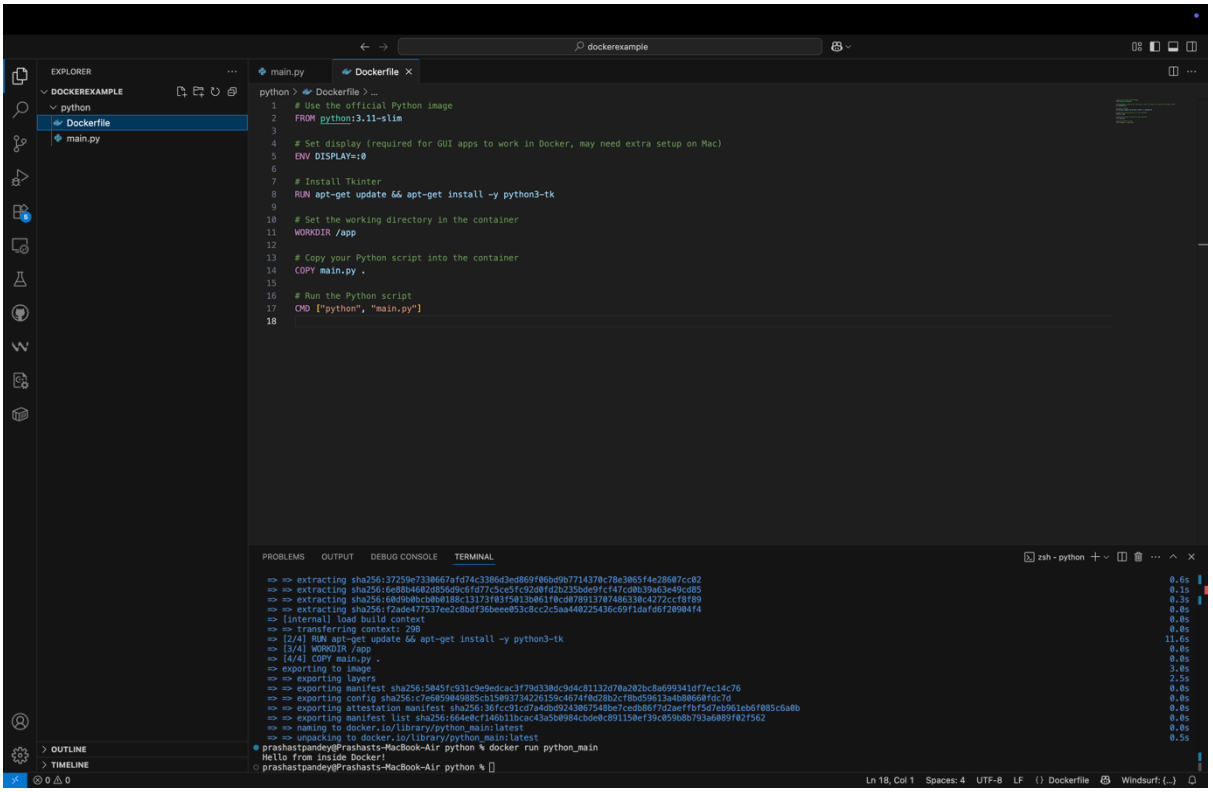
1] https://www.docker.com/products/docker-desktop/ - download docker desktop for windows/Mac/linux (accordingly)

2] open app.

3] Make an example new python file/node application (in VSCode-alongwith Docker and python extension enabling).



4] Create a new file named ‘Dockerfile’ inside the same folder or working directory.



Dockerfile CODE:

Use the official Python image

FROM python:3.11-slim

Set display (required for GUI apps to work in Docker, may need extra setup on Mac)

ENV DISPLAY=:0

Install Tkinter

RUN apt-get update && apt-get install -y python3-tk

Set the working directory in the container

WORKDIR /app

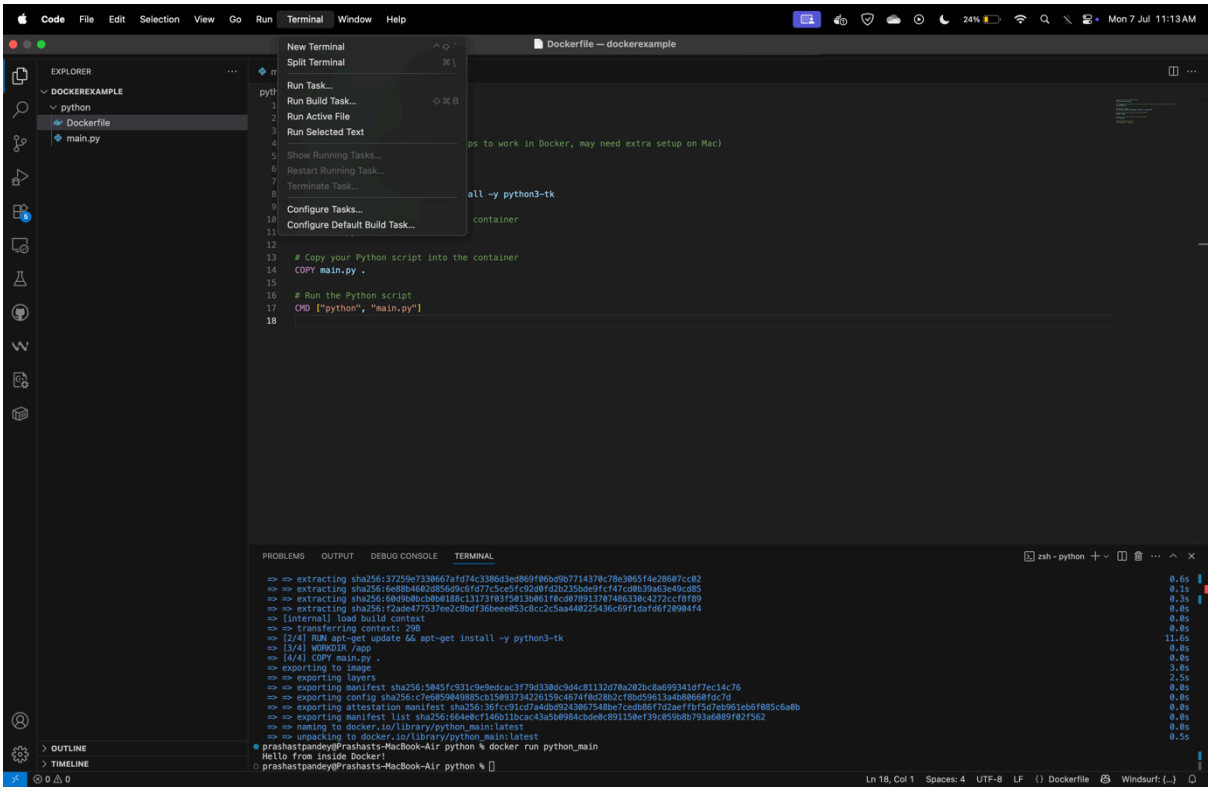
Copy your Python script into the container

COPY DockerDemo.py .

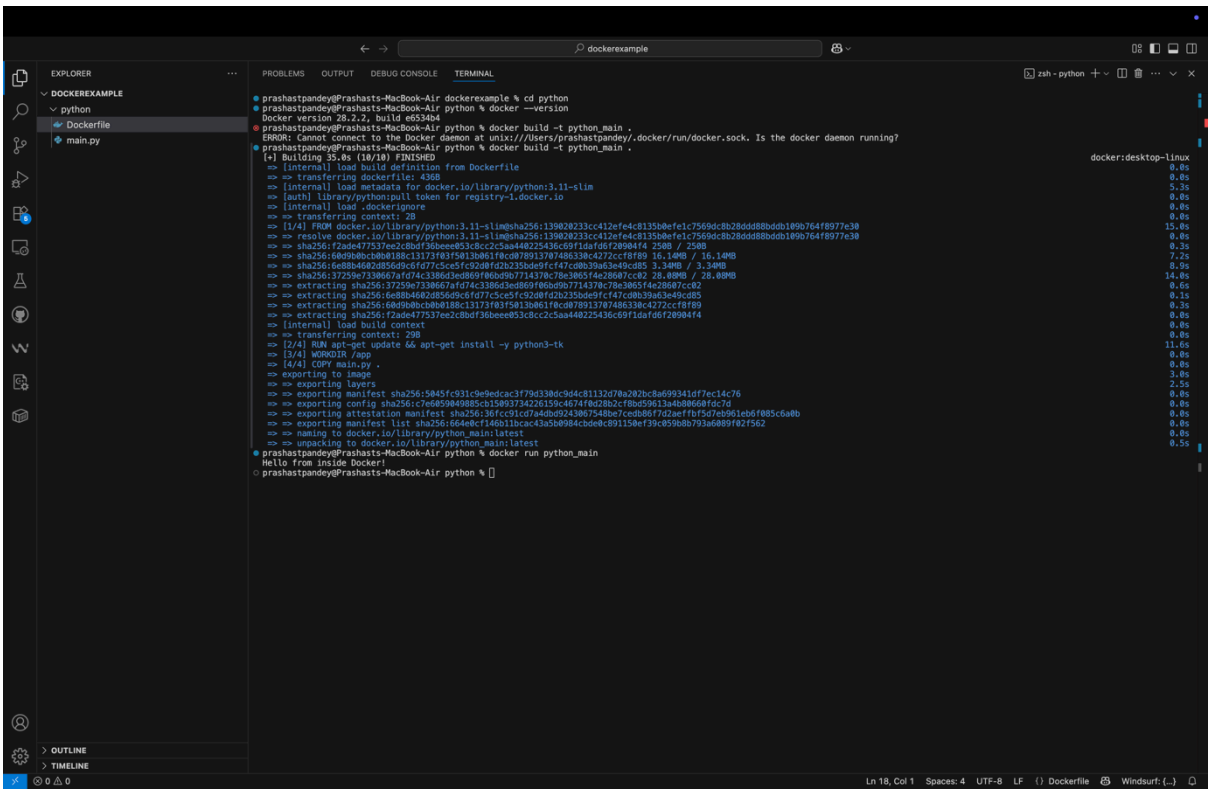
Run the Python script

CMD ["python", "DockerDemo.py"]

5] Then open a new terminal.(by pressing keys **ctrl+~**)



6] Follow terminal commands to execute the code in container. (NOTE: make sure your docker app is open)



COMMANDS:

cd python: to change into your working directory

docker --version: to see your docker version on your system.

docker build -t <virtual Direcory name> .

: build image of your code. NOTE: -t is tagging the build with the ‘python_main’ name and ‘.’ Symbolises your current working directory I think

docker run <virtual Directory Name>: finally run the container using the tagged name