## CREATING A DOCKER CONTAINER ENVIRONMENT FOR PYTHON DEVELOPMENT:

- 1. Creating a Project Directory for Docker (docker-app)
- 2. Creating sample Python file:

```
a. App.py:
    # app.py

def main():
    print("Hello, world!")

if __name__ == "__main__":
    main()
```

- 3. Create a Requirements File (Optional)
  - a. Requirements.txt Flask
- 4. Create a Dockerfile
  - a. Dockerfile:

# Use the official Python image as a base FROM python:3.9

# Set the working directory in the container WORKDIR /app

# Copy the dependencies file to the working directory COPY requirements.txt .

# Install dependencies RUN pip install -r requirements.txt

# Copy the content of the local src directory to the working directory COPY . .

# Run the Python script CMD ["python", "app.py"]

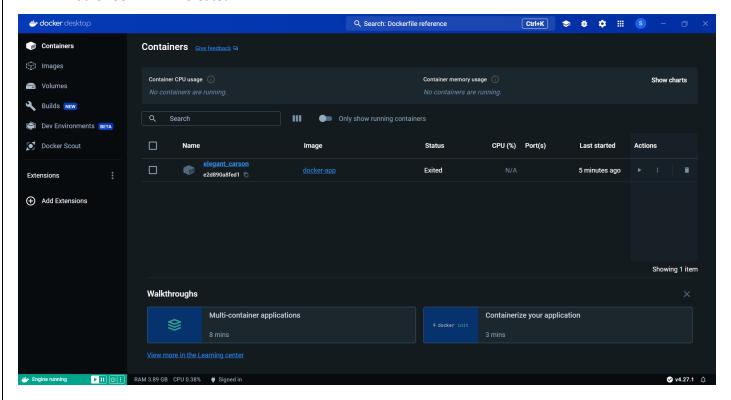
5. Build the Docker Image

docker build -t <directory-name> .

6. Run the Docker Container

docker run <directory-name>

## **Docker CONTAINER Created:**



## Docker IMAGE Created:

