# Unit 4.4: Assignment Syed Muhammad Raqim Ali Shah (2303.KHI.DEG.008) Maaz Javaid Siddique (2303.KHI.DEG.004) Qadeer Hussain (2303.KHI.DEG.006)

# Task:

Browse to: tasks/4\_microservices\_development/day\_4\_best\_practices/ app\_that\_doesnt\_follow\_best\_practices/ analyze the application - which microservice best practices it doesn't follow? Think about what needs to be improved first. Have a look at the areas\_for\_improvement.txt file for hints. Improve the application.

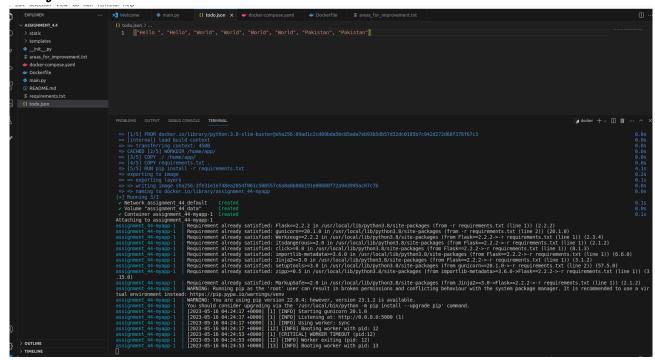
# Solution:

This Dockerfile we specifies the instructions to build a Docker image that includes a Python 3.8 runtime environment, copies the contents of the current directory into the /home/app/directory within the container, installs Python dependencies specified in requirements.txt file, sets some environment variables and defines a command to be executed when the container starts.

This Docker Compose file we defines a single service named "myapp". This service is based on a Docker image built from a Dockerfile located in the same directory as the Compose file. The service is configured to expose port 5000 on the host, which is mapped to port 5000 on the container. This means that the application running inside the container can be accessed via <a href="http://localhost:5000">http://localhost:5000</a>.

### main.py

todo.json



## Output

