

Homework: Build and Containerize a Python Microservice

Objective: Apply modular programming and containerization techniques.

Tasks:

1. Microservice:

- Write a Python Flask app that provides an API to multiply two numbers.
- The app should:
 - Accept two numbers as query parameters (e.g., `/multiply?num1=5&num2=10`).
 - Return the result as JSON.
- Use a `utils.py` file for the multiplication logic.

2. Containerization:

- Write a `Dockerfile` to containerize the Flask app.
- Build and run the Docker container.

Submission:

- Submit the Flask app code, `utils.py` , and the `Dockerfile` .
- Provide a screenshot of the running container and the API response.