

In VS Code, your folder should look like this:

```
project_python_dockerfile/  
|— hello.py  
|— Dockerfile  
|— docker-compose.yml
```

Open **VS Code** → **Open Folder** →  
**project\_python\_dockerfile**

## Step 1: Create `hello.py`

```
from flask import Flask  
  
app = Flask(__name__)  
  
@app.route("/")  
def hello_world():  
    return "<p> Hello World </p>"
```

## Step 2: Create the Dockerfile

In VS Code:

- Right-click → **New File**
- Name it exactly: **Dockerfile**  
( ⚠ no `.txt`, no extension)

```
# Base image
FROM python:latest

# Set working directory
WORKDIR /app

# Copy files
COPY hello.py /app

# Install dependencies
RUN pip install Flask

EXPOSE 5000

CMD ["/bin/bash"]
```

### **Step 3: Create docker-compose.yml**

**In VS Code:**

- Right-click → New File
- Name it exactly: **docker-compose.yml**

```
version: "3.9"
services:
  python1:
    build: .
    container_name: p1
    command: flask run --host=0.0.0.0
    ports:
      - "5000:5000"
    volumes:
      - ./:/app
    environment:
      - FLASK_APP=hello
      - FLASK_ENV=development
      - FLASK_DEBUG=1
      #- FLASK_APP=${FLASK_APP}
      #- FLASK_ENV=production
```

## **Step 4: Run (Compose way)**

From VS Code terminal:

```
docker compose up
```

## **Step 5: Test in Browser**

<http://localhost:5000>