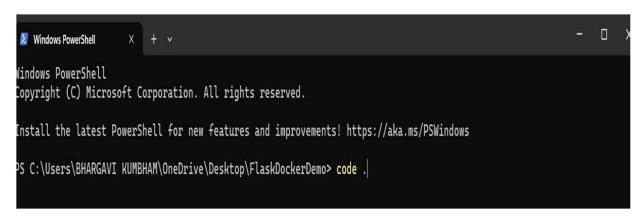
Docker compose : simple Flask app in app.py

# Create a new project folder FlaskDockerDemo



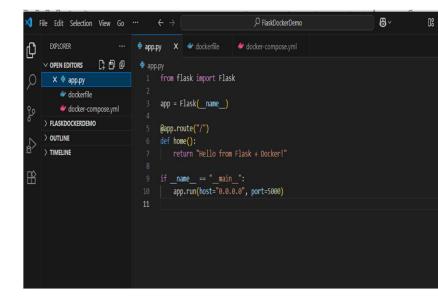
open folder and go to terminal





Task: Try this
Create a simple Flask app in app.py:

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def home():
    return "Hello from Flask + Docker!"
if __name__ == "__main__":
    app.run(host="0.0.0.0", port=5000)
```



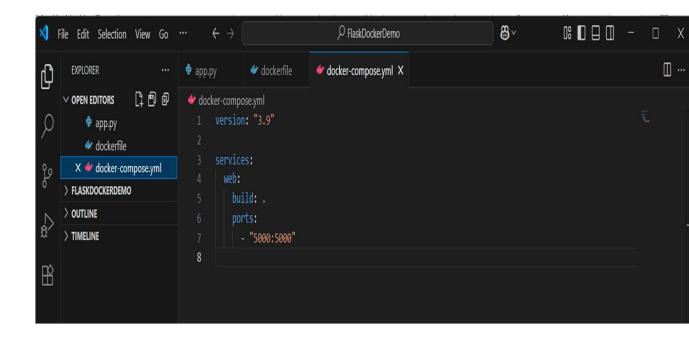
#### Add a Dockerfile in the same folder:

FROM python:3.10-slim
WORKDIR /app
COPY app.py /app/
RUN pip install flask
CMD ["python", "app.py"]



### Update docker-compose.yml:

```
web:
build: .
ports:
- "5000:5000"
depends_on:
- db
```



#### docker-compose up --build

Built

#12 DONE 0.0s

√flaskdockerdemo-web

Attaching to web-1

✓Network flaskdockerdemo\_default Created
✓Container flaskdockerdemo-web-1 Created

```
C:\Users\BHARGAVI KUMBHAM\OneDrive\Desktop\FlaskDockerDemo> docker compose up
  validating C:\Users\BHARGAVI KUMBHAM\OneDrive\Desktop\FlaskDockerDemo\docker-compose.yml:
                                                                                            additional properties 'web'
 ot allowed
  PS C:\Users\BHARGAVI KUMBHAM\OneDrive\Desktop\FlaskDockerDemo> docker compose up --build
  time="2025-08-29T16:33:42+05:30" level=warning msg="C:\\Users\\BHARGAVI kUMBHAM\\OneDrive\\Desktop\\FlaskDockerDemo\\do
 ker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
  #1 [internal] load local bake definitions
  #1 reading from stdin 584B done
  #1 DONE 0.0s
  #2 [internal] load build definition from dockerfile
  #2 transferring dockerfile: 140B 0.0s done
 #2 DONE 0.1s
  #3 [internal] load metadata for docker.io/library/python:3.10-slim
  #4 [auth] library/python:pull token for registry-1.docker.io
 #4 DONE 0.0s
  #3 [internal] load metadata for docker.io/library/python:3.10-slim
  #3 DONE 4.1s
  #5 [internal] load .dockerignore
    transferring context: 2B done
  #5 DONE 0.0s
#11 exporting to image
#11 exporting layers
#11 exporting layers 0.6s done
#11 exporting manifest sha256:bdf79c71876e4e7845c1ad1ffc64b9bba323708277bfb9036879780ac991a146 0.0s done
#11 exporting config sha256:9e760aa79ccdeb0350297ba215cec46a6bec37d666ed60d29c10d5c7cba30bfc 0.0s done
#11 exporting attestation manifest sha256:428be61cbcb528329cdbc2f7bd36eedd0413ebf266025f6681b098a6abe4758e 0.0s done
#11 exporting manifest list sha256:759fe2ddebb684dbea248207e4765f02bdf7b6ae55bc57c09617181ddb9a47b4 0.0s done
#11 naming to docker.io/library/flaskdockerdemo-web:latest done
#11 unpacking to docker.io/library/flaskdockerdemo-web:latest
#11 unpacking to docker.io/library/flaskdockerdemo-web:latest 0.2s done
#11 DONE 0.9s
#12 resolving provenance for metadata file
```

### Visit <a href="http://localhost:5000">http://localhost:5000</a>



Iello from Flask + Docker!

Change the return text in app.py (e.g., "Hello from AIML DEPT, Docker

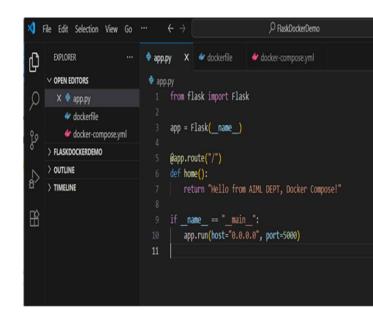
Compose!").

• Rebuild:

docker compose up --build

**Expected Output:** 

New message appears instantly after rebuild.



Change the text in app.py (e.g., "Hello from AIML DEPT, Docker Compose!").

Rebuild:

docker compose up --build



Iello from AIML DEPT, Docker Compose!

#### press Ctrl + c to come out of this

# Remove containers docker-compose down

```
WARNING: DUCKER_INSECURE_NO_IPTABLES_RAW is set

PS C:\Users\BHARGAVI KUMBHAM\OneDrive\Desktop\FlaskDockerDemo> docker compose down

time="2025-08-29T22:09:18+05:30" level=warning msg="C:\\Users\BHARGAVI KUMBHAM\\OneDrive\\Desktop\\FlaskDockerDemo\\docker-compose.yml:

the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Running 2/2

Container flaskdockerdemo-web-1 Removed

Network flaskdockerdemo_default Removed

9.3s

PS C:\Users\BHARGAVI KUMBHAM\OneDrive\Desktop\FlaskDockerDemo>
```