Program3 : Code a dockerized Python Flask or Node.js Application

Program 3
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|
|---------app.py
|
|---------requirements.txt
|
|---------Dockerfile

app.py :

```
from flask import Flask
app=Flask(__name__)

@app.route("/")
def hello():
        return "Hello from dockerized"

if __name__=="__main__":
        app.run(host='0.0.0.0',port=5000)
```


requirements.txt :

```
flask
```

Dockerfile :

```
FROM python:latest

WORKDIR /app

COPY requirements.txt .


RUN pip install -r requirements.txt

COPY . .

EXPOSE 5000

CMD ["python","app.py"]
```

Build the docker :

docker build -t program3

```
1RV24MC108_SWASTHIK_DEVADIGA@swasthik-Inspiron-15-3515:~/devops/prg3$ docker build -t program3 .
[+] Building 2.3s (10/10) FINISHED
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 183B
 => [internal] load metadata for docker.io/library/python:latest
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [1/5] FROM docker.io/library/python:latest@sha256:1ad1a43b5e2478e62056bbc28028afd858185d73bf4d6a439cbb058b6800a96d
 => => resolve docker.io/library/python:latest@sha256:1ad1a43b5e2478e62056bbc28028afd858185d73bf4d6a439cbb058b6800a96d
 => [internal] load build context
 => => transferring context: 29.85kB
 => CACHED [2/5] WORKDIR /app
 => CACHED [3/5] COPY requirements.txt .
 => CACHED [4/5] RUN pip install -r requirements.txt
 => [5/5] COPY . .
 => exporting to image
 => => exporting layers
 => => writing image sha256:0687151797d1ffeeadf4a5310d7ba7fd56878e7cd86a0c0540de702a0603e193
 => => naming to docker.io/library/program3
1RV24MC108_SWASTHIK_DEVADIGA@swasthik-Inspiron-15-3515:~/devops/prg3$
```

Run the docker :

docker run -it -p 5000:5000 program3

```
=> CACHED [4/5] RUN pip install -r requirements.txt
 => [5/5] COPY . .
 => exporting to image
 => => exporting layers
 => => writing image sha256:0687151797d1ffeeadf4a5310d7ba7fd56878e7cd86a0c0540de702a0603e193
 => => naming to docker.io/library/program3
1RV24MC108_SWASTHIK_DEVADIGA@swasthik-Inspiron-15-3515:~/devops/prg3$ docker run -it -p 5000:5000 program3
 * Serving Flask app 'app'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://172.18.0.2:5000
Press CTRL+C to quit
```

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Hello from dockerized