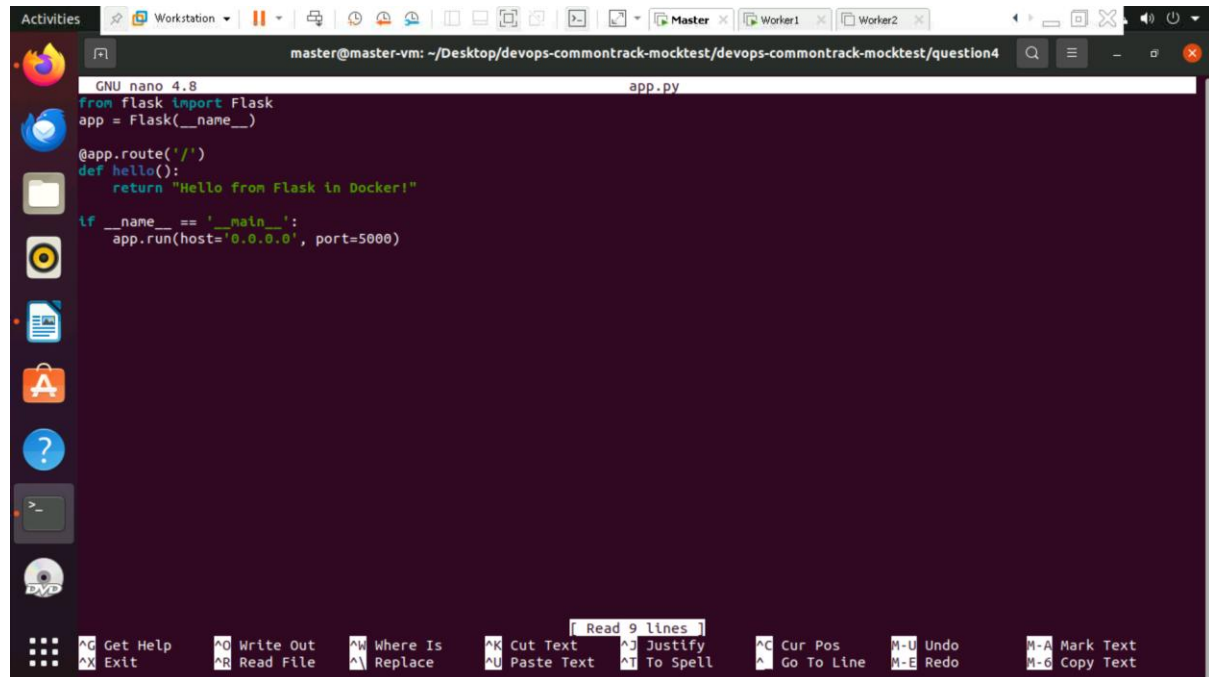# Q5 Docker Abdul samim

```
master@master-vm:~/Desktop/devops-commontrack-mocktest$ git clone https://github.com/abdulsamimmondal/devops-commontrack-mocktest.git
t
Cloning into 'devops-commontrack-mocktest'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 15 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (15/15), 4.76 KiB | 812.00 KiB/s, done.
master@master-vm:~/Desktop/devops-commontrack-mocktest$ cd devops-commontrack-mocktest
master@master-vm:~/Desktop/devops-commontrack-mocktest/devops-commontrack-mocktest$ mkdir question4
master@master-vm:~/Desktop/devops-commontrack-mocktest/devops-commontrack-mocktest$ cd question4
master@master-vm:~/Desktop/devops-commontrack-mocktest/devops-commontrack-mocktest/question4$ nano app.py
master@master-vm:~/Desktop/devops-commontrack-mocktest/devops-commontrack-mocktest/question4$ nano Dockerfile
```
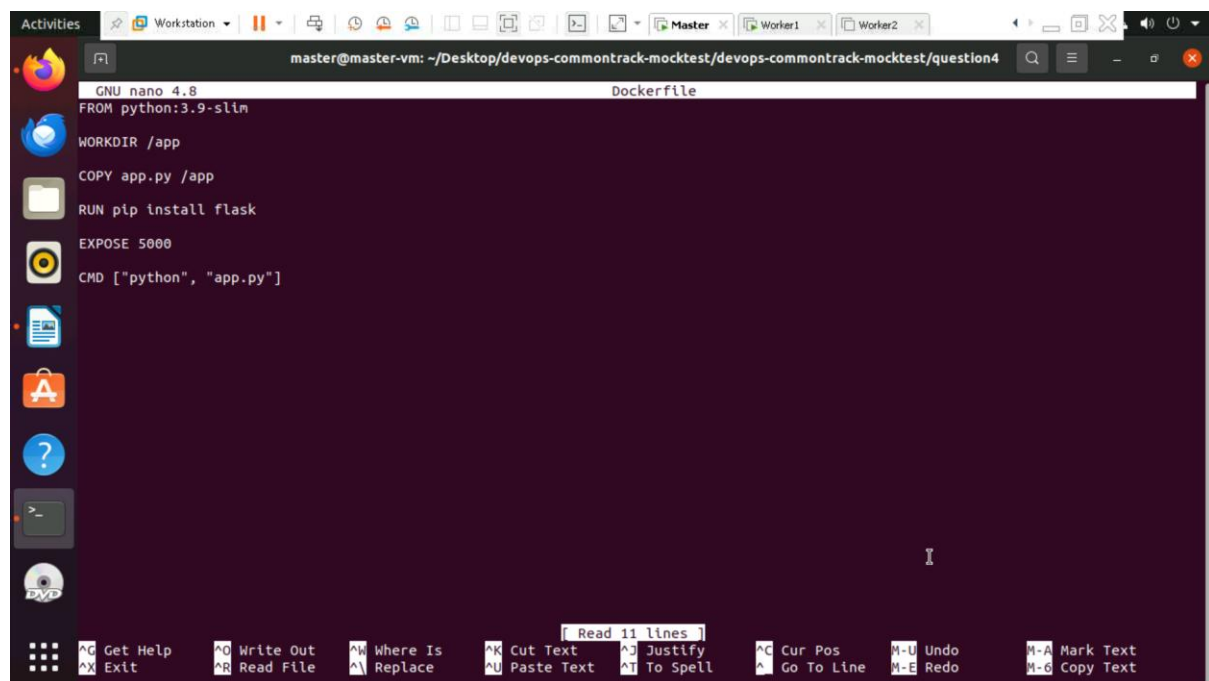
App.py


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

@app.route('/')
def hello():
    return "Hello from Flask in Docker!"

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

Dockerfile


```
FROM python:3.9-slim

WORKDIR /app

COPY app.py /app

RUN pip install flask

EXPOSE 5000

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

Build

Q5 Docker Abdul samim


```
master@master-vm:~/Desktop/devops-commontrack-mocktest/devops-commontrack-mocktest/question4$ sudo docker build -t flask-app .
[sudo] password for master:
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  3.072kB
Step 1/6 : FROM python:3.9-slim
3.9-slim: Pulling from library/python
8a628cdd7ccc: Pull complete
12593af8cbd2: Pull complete
1a2929da74e6: Pull complete
97e7d544f110: Pull complete
Digest: sha256:40007fe18a72a2e7166be350d52dab86b9fe18f2de08e6a38e26422fb247e81e
Status: Downloaded newer image for python:3.9-slim
 ---> b245129ac62a
Step 2/6 : WORKDIR /app
 ---> Running in d5434413e834
 ---> Removed intermediate container d5434413e834
 ---> 2389dd680f00
Step 3/6 : COPY app.py /app
 ---> 1c01515c6bb9
Step 4/6 : RUN pip install flask
 ---> Running in 1fcb3440e75e
Collecting flask
  Downloading flask-3.1.0-py3-none-any.whl (102 kB)
                                              103.0/103.0 kB 1.1 MB/s eta 0:00:00
Collecting Jinja2>=3.1.2
  Downloading jinja2-3.1.6-py3-none-any.whl (134 kB)
                                              134.9/134.9 kB 5.6 MB/s eta 0:00:00
Collecting Werkzeug>=3.1
  Downloading werkzeug-3.1.3-py3-none-any.whl (224 kB)
                                              224.5/224.5 kB 18.0 MB/s eta 0:00:00
```
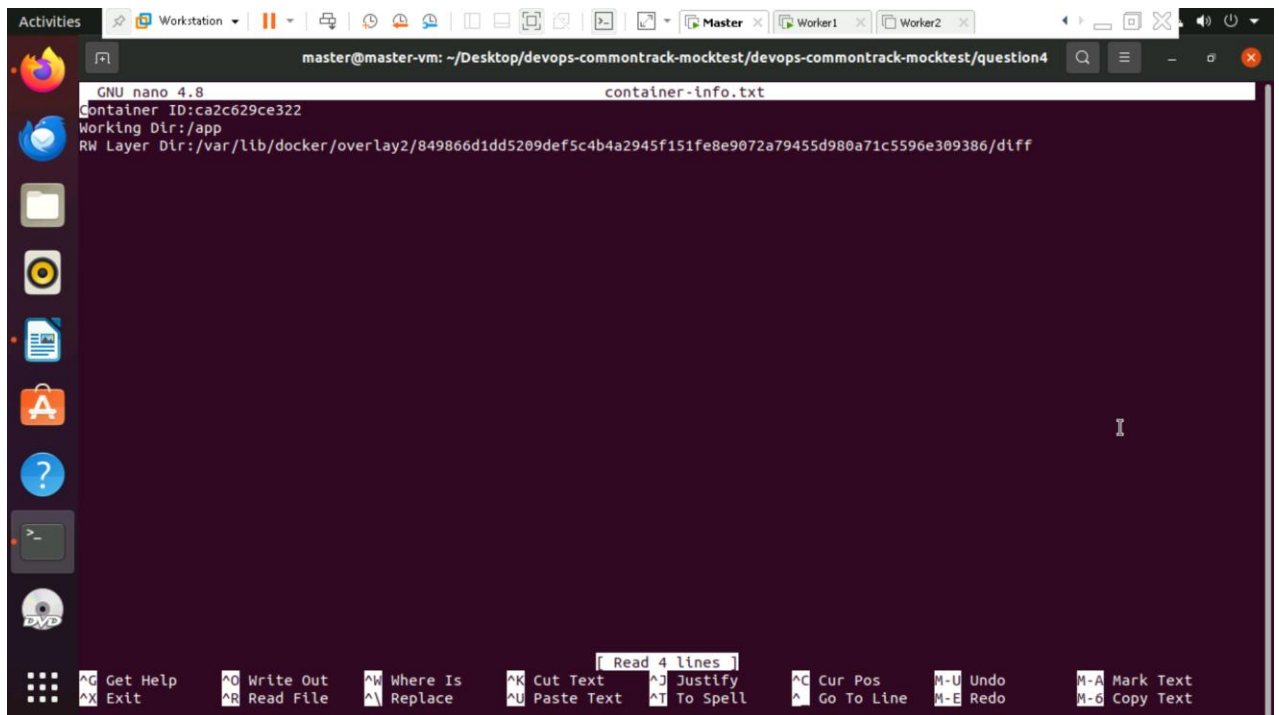
Run


```
  Downloading click-8.1.8-py3-none-any.whl (98 kB)
                                              98.2/98.2 kB 8.3 MB/s eta 0:00:00
Collecting blinker>=1.9
  Downloading blinker-1.9.0-py3-none-any.whl (8.5 kB)
Collecting itsdangerous>=2.2
  Downloading itsdangerous-2.2.0-py3-none-any.whl (16 kB)
Collecting importlib-metadata>=3.6
  Downloading importlib_metadata-8.6.1-py3-none-any.whl (26 kB)
Collecting zipp>=3.20
  Downloading zipp-3.21.0-py3-none-any.whl (9.6 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-3.0.2-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (20 kB)
Installing collected packages: zipp, MarkupSafe, itsdangerous, click, blinker, Werkzeug, Jinja2, importlib-metadata, flask
Successfully installed Jinja2-3.1.6 MarkupSafe-3.0.2 Werkzeug-3.1.3 blinker-1.9.0 click-8.1.8 flask-3.1.0 importlib-metadata-8.6.1 i
tsdangerous-2.2.0 zipp-3.21.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager.
It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

[notice] A new release of pip is available: 23.0.1 -> 25.0.1
[notice] To update, run: pip install --upgrade pip
 ---> Removed intermediate container 1fcb3440e75e
 ---> 26debfd8aca4
Step 5/6 : EXPOSE 5000
 ---> Running in 6d2ca7c0ddd4
 ---> Removed intermediate container 6d2ca7c0ddd4
 ---> dca354665c41
Step 6/6 : CMD ["python", "app.py"]
 ---> Running in fc4d1f6e1406
 ---> Removed intermediate container fc4d1f6e1406
 ---> d206e4863ef9
Successfully built d206e4863ef9
Successfully tagged flask-app:latest
master@master-vm:~/Desktop/devops-commontrack-mocktest/devops-commontrack-mocktest/question4$ sudo docker run -d --name flask-contai
ner flask-app
ca2c629ce322a6e9e0d3dd1fb399bd61b8c314cb7c3061f594856e3934a91587
master@master-vm:~/Desktop/devops-commontrack-mocktest/devops-commontrack-mocktest/question4$ echo "Container ID: $(docker ps -qf na
```
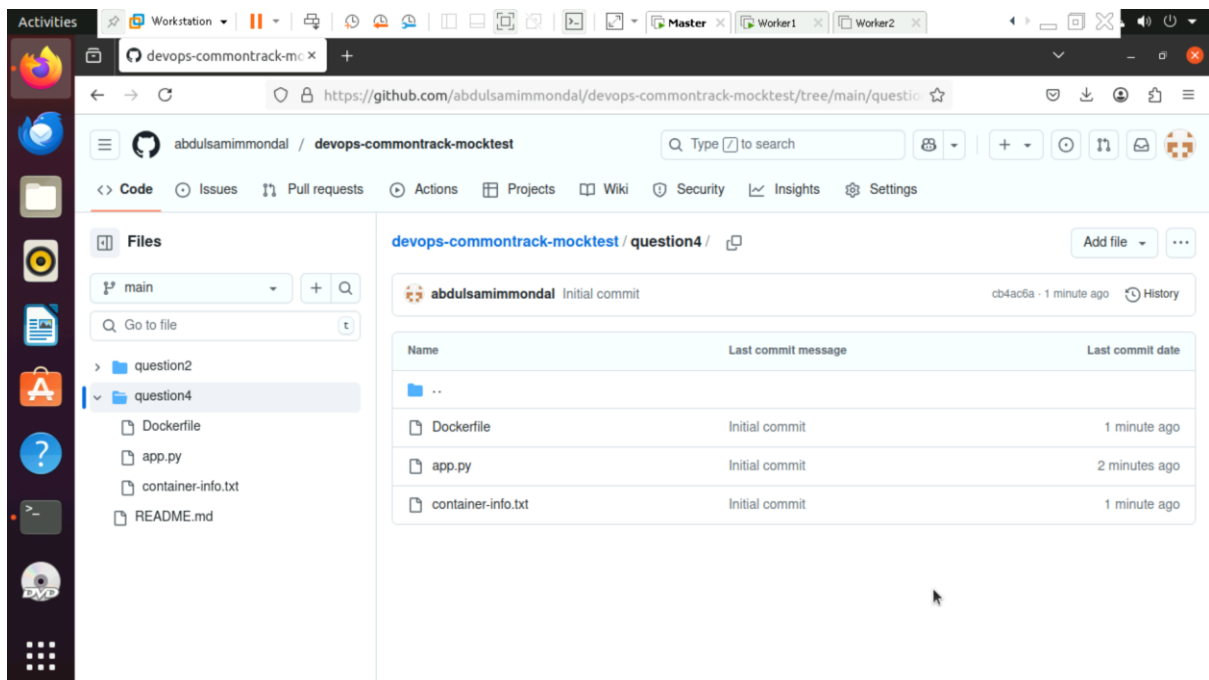
Q5 Docker Abdul samim

Container-info.txt

Github repo