Task 8 - Create a dockerfile, file which when build must display your basic details in website

Python File:

```
from flask import Flask
```

```
app = Flask(__name__)
```

```
@app.route('/')
```

def hello():

return 'Hello,
This application is devloped using python!
Application is running on port number 5000!'

```
if __name__ == '__main__':
    app.run(debug=True, host='0.0.0.0')
```

```
from flask import Flask
app = Flask(_name__)
@app.route('/')
def hello():
    return '<b>Hello,</b><br>>\def bello,</b><br/>
if __name__ == '__main__':
    app.run(debug=True, host='0.0.0.0')
```

Docker file:

```
FROM python:3.8-alpine

WORKDIR /try

COPY requirements.txt .

RUN pip install -r requirements.txt

COPY . .

EXPOSE 500

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

Converting Docker file to image:

```
ubuntu@ip-172-31-41-158: $$ $$ \clim Dockerfile = $$ ubuntu@ip-172-31-41-158: $$ $$ Dockerfile $$ ubuntu@ip-172-31-41-158: $$ $$ Dockerfiles-Sample $$ python $$ docker build -t myapplication .
```

```
Successfully built a14a56582638
Successfully tagged myapplication:latest
ubuntu@ip-172-31-41-158:~/Dockerfiles-SampleApps/python$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
myapplication latest a14a56582638 9 seconds ago 58.7MB
```

Containerizing docker image:

ubuntu@ip-172-31-41-158:~/Dockerfiles-SampleApps/python\$ docker run -dname myapplication_container -p 5000:5000 myappl ication 278ba468f5a6ade3386434ae36d155ec3d99d251bfe707ddd39a106a883c30bd ubuntu@ip-172-31-41-158:~/Dockerfiles-SampleApps/python\$ docker ps -a					
CONTAINER ID	IMAGE	COMMAND NAMES	CREATED	STATUS	PORTS
278ba468f5a6 ->5000/tcp, ::	<pre>myapplication :5000->5000/tcp</pre>	"python app.py" myapplication container	5 seconds ago	Up 4 seconds	500/tcp, 0.0.0.0:5000
9d0c4284ceb9	httpd	"httpd-foreground" httpdcontainer	47 hours ago	Exited (137) 47 hours ago	
ee0bb498c80c ubuntu@ip-172-	nginx 31-41-158:~/Dock	"/docker-entrypoint" containernginx erfiles-SampleApps/python	47 hours ago	Exited (137) 47 hours ago	

Running Application using docker container:

