Create a dockerfile, docker-compose file which when executed must display your basic details in the website.

STEP 1 - Create a dockerfile

```
FROM python:3.9
WORKDIR /class
COPY ./api_demo.py /class
RUN pip install requests
EXPOSE 4000
CMD ["python","api_demo.py"]


~
~
```

Docker build -t tag . command is used build an image

```
root@ip-172-31-32-49:/home/ubuntu/git-to-github# docker build -t karthi .
[+] Building 1.4s (9/9) FINISHED
 => [internal] load build definition from dockerfile
 => => transferring dockerfile: 161B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/python:3.9
 => [1/4] FROM docker.io/library/python:3.9@sha256:269252d0fb065c8e27ee77c1bade3fdded0c450ed3040c07c7d8256b592edf1a
 => [internal] load build context
 => => transferring context: 33B
 => CACHED [2/4] WORKDIR /class
 => CACHED [3/4] COPY ./api_demo.py /class
 => CACHED [4/4] RUN pip install requests
 => exporting to image
 => => exporting layers
 => => writing image sha256:0a65279dac801b7909c7f3618255fdcc4c6f383af385a21e18dec6deadd222c9
 => => naming to docker.io/library/karthi
```

Docker image command is for display the images

```
root@ip-172-31-32-49:/home/ubuntu/git-to-github# docker images
REPOSITORY      TAG        IMAGE ID        CREATED          SIZE
karthi          latest     0a65279dac80    10 minutes ago   1.01GB
metric          latest     0a65279dac80    10 minutes ago   1.01GB
classic         latest     cf6fb9c58af2    36 minutes ago   1.02GB
root@ip-172-31-32-49:/home/ubuntu/git-to-github# S
```

STEP 2 - docker-compose file.yml

```
version: '3'
service:
  python:
  image: karthi
  container_name: teams_of_fine
  ports:
    - "80:4000:
```

Docker-compose up is for run the config
Docker run -itd for run container in detach and interacting mode
-p is for list the port number where the container was created
Docker ps -a is to list the created container

```
root@ip-172-31-32-49:/home/ubuntu/git-to-github# vim docker-compose.yml
root@ip-172-31-32-49:/home/ubuntu/git-to-github# docker-compose up
[+] Running 2/1
√ Network git-to-github_default   Created
√ Container don_dom               Created
Attaching to don_dom
don_dom  | Random Cat Fact:
don_dom  | {"data":["A cat's whiskers are thought to be a kind of radar, which helps a cat gauge the space it intends to walk through."
don_dom exited with code 0
root@ip-172-31-32-49:/home/ubuntu/git-to-github# vim docker-compose.yml
root@ip-172-31-32-49:/home/ubuntu/git-to-github# docker run -itd -p 80:4000 karthi
c823dade87cdcc3f5fe44b20299d139bea099bd0e5bfb6606baadf4884ac8295
root@ip-172-31-32-49:/home/ubuntu/git-to-github# docker ps -a
CONTAINER ID   IMAGE          COMMAND              CREATED          STATUS                    PORTS     NAMES
c823dade87cd   karthi         "python api_demo.py" 7 seconds ago    Exited (0) 5 seconds ago            thirsty_rosalind
5d91a49f2a1d   karthi:latest  "python api_demo.py" About a minute ago Exited (0) About a minute ago     don_dom
b678da61a964   0a65279dac80   "python api_demo.py" 23 minutes ago   Exited (0) 19 minutes ago          friend
6912a51a4b0e   0a65279dac80   "python api_demo.py" 24 minutes ago   Exited (0) 24 minutes ago          friends
```