PROGRAM 1 :

Step 1 : created a folder program 1

Step 2 : created 3 files and written neccessary code in requirenments.txt , app.py, Dockerfile

```
1RV24MC036_gayatri_v_k@ubuntu:~$ mkdir pgm1
1RV24MC036_gayatri_v_k@ubuntu:~$ cd pgm1
1RV24MC036_gayatri_v_k@ubuntu:~/pgm1$ nano app.py
1RV24MC036_gayatri_v_k@ubuntu:~/pgm1$ nano requirements.txt
1RV24MC036_gayatri_v_k@ubuntu:~/pgm1$ nano Dockerfile
```

Step 3: checked docker status using " sudo systemctl status docker "

Step 4 : build image using "sudo docker build -t prg1"

```
1RV24MC036_gayatri_v_k@ubuntu:~/pgm1$ docker build -t my-flask-app .
[+] Building 21.6s (10/10) FINISHED                                docker:default
 => [internal] load build definition from Dockerfile                          0.0s
 => => transferring dockerfile: 558B                                          0.0s
 => [internal] load metadata for docker.io/library/python:3.9-slim            6.5s
 => [internal] load .dockerignore                                             0.0s
 => => transferring context: 2B                                               0.0s
 => [1/5] FROM docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338     5.1s
 => => resolve docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338     0.0s
 => => sha256:ea56f685404adf81680322f152d2cfec62115b30dda481c 251B / 251B     0.7s
 => => sha256:2d97f6910b16bd338d3060f261f53f144965f7555 10.36kB / 10.36kB     0.0s
 => => sha256:dad5b29e3506c35e0fd222736f4d4ef25d21b219acd 1.74kB / 1.74kB     0.0s
 => => sha256:085da638e1b8a449514c3fda83ff50a3bffae4418b0 5.40kB / 5.40kB     0.0s
 => => sha256:b3ec39b36ae8c03a3e09854de4ec4aa08381dfed84a 1.29MB / 1.29MB     3.0s
 => => sha256:fc74430849022d13b0d44b8969a953f842f59c6e9 13.88MB / 13.88MB     3.5s
 => => extracting sha256:b3ec39b36ae8c03a3e09854de4ec4aa08381dfed84a9daa0     0.3s
 => => extracting sha256:fc74430849022d13b0d44b8969a953f842f59c6e9d1a0c2c     1.4s
 => => extracting sha256:ea56f685404adf81680322f152d2cfec62115b30dda481c2     0.0s
 => [internal] load build context                                             0.0s
 => => transferring context: 818B                                             0.0s
 => [2/5] WORKDIR /app                                                        0.1s
 => [3/5] COPY requirements.txt .                                             0.0s
 => [4/5] RUN pip install --no-cache-dir -r requirements.txt                  9.5s
 => [5/5] COPY . .                                                            0.0s
 => exporting to image                                                        0.3s
 => => exporting layers                                                       0.3s
 => => writing image sha256:a986c4686d36657df233693894336edb0d2f61b418add     0.0s
 => => naming to docker.io/library/my-flask-app                               0.0s
```

Step 5 : checking image using "sudo docker images "
Step 6 : Opening in in the server

```
^X^C1RV24MC036_gayatri_v_k@ubuntu:~/pgm1$ sudo docker images
[sudo] password for 1RV24MC036_gayatri_v_k:
REPOSITORY            TAG       IMAGE ID       CREATED          SIZE
my-flask-app          latest    a986c4686d36   50 seconds ago   133MB
node-multistage-app   latest    81e096b81e02   2 days ago       137MB
<none>                <none>    bef49b35b619   2 days ago       132MB
my-node-app           latest    8b17073010b4   2 days ago       129MB
<none>                <none>    deda24c3ffb5   2 days ago       129MB
<none>                <none>    dfa50beba801   2 days ago       132MB
<none>                <none>    d7d26de2057a   2 days ago       132MB
<none>                <none>    217b721cf1d4   2 days ago       132MB
```

Step 7 : Image From The Web

Hello, Docker!