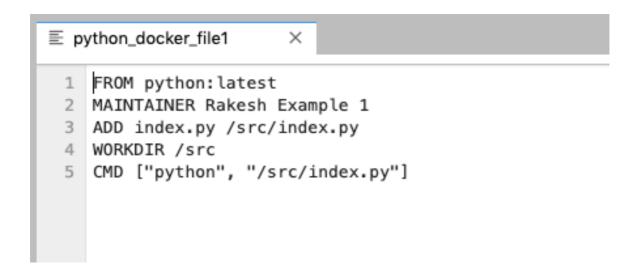
- Create a Docker directory, where Docker Images can be created for each application.
- Build Docker Image.
- Executing python file in that Docker image.

• Docker First Image build/setup file(i.e., which creates Docker Image).



Python File which run in the Docker Image.

 Showing the Docker images and removing the unwanted previous docker images.

```
ilask_doctor_demo_1 — -bash — 184×50
(base) rocks-Air:flask_doctor_demo_1 rock$ docker images
REPOSITORY
                                                                                                                           CREATED
                                                                                                                                                                SIZE
python_docker_file1 latest
python_flask_rest_api_2 latest
python_flask_rest_api_1 latest
                                                latest
                                                                                     057158c7c7f7
                                                                                                                           8 minutes ago
                                                                                                                                                                934MB
                                                                                     4751bf9dcbab
                                                                                                                                                                943MB
                                                                                                                           5 months ago
                                                                                                                                                                943MB
                                                                                      df4f1ccb2937
                                                                                                                           5 months ago
python latest 7f5b6ccd03e9 6 (base) rocks-Air:flask_doctor_demo_1 rock$ docker image rm python -f
                                                                                                                          6 months ago
Untagged: python:latest
Untagged: python@sha256:dd6cd8191ccbced2a6af5d0ddb51e6057c1444df14e14bcfd5c7b3ef78738050 (base) rocks-Air:flask_doctor_demo_1 rock$ docker image rm python_flask_rest_api_2 -f Untagged: python_flask_rest_api_2:latest
Deleted: sha256:4751bf9dcbab7cc106b6137b34a99578ad3a71c9182e6e78ce6a0e9c0ab58041
Deleted: sha256:e47ba1958dca609c02655b432b7ac419a5e1c2ca7b194a8aa2e68b5cf8a6021f
Deleted: sha256:926688d3dd6c3768caa5d25c594b0fe72d319b335a707e26da32f399affb2990
(base) rocks-Air:flask_doctor_demo_1 rock$ docker image rm python_flask_rest_api_1 -f
Tocks docker image impython_flask_rest_api_1:latest
Untagged: python_flask_rest_api_1:latest
Deleted: sha256:df4f1ccb2937631d96259fe16e7e5b5391b3a4f44896130263faa4f8e5114ba7
Deleted: sha256:c0ab5393d9942d9e50faa6739a8eece27cf77bd5488b4a3c080be244026880a7
Deleted: sha256:4a31813152b57c0c66d9c990d9528cd7f2b80b55d8a656ab726e1053b6fe819a
Deleted: sha256:9bc3674a5f29027622f2c1af2b57acff22627ee4213be20c06ec6613991dd701
Deleted: sha256:7fc81a6dd2568a4815330645b539234b447511ad715c2e17a17d745bdc8be83f (base) rocks-Air:flask_doctor_demo_1 rock$ docker images REPOSITORY TAG IMAGE ID CREATED python_docker_file1 latest 057158c7c7f7 9 minutes ago
                                                                                                                                                        SIZE
(base) rocks-Air:flask_doctor_demo_1 rock$
```

Creating 2nd Docker Image.

```
Removing intermediate container 01056c622b55
---> 0c2bf8306897
Successfully built 0c2bf8306897
Successfully tagged python_flask_rest_api_1:latest
(base) rocks-Air:flask_doctor_demo_1 rock$
```

```
[(base) rocks-Air:flask_doctor_demo_1 rock$ docker run -p 8080:8080 python_flask_rest_api_1
 * Serving Flask app "Flask_Hello_World" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://0.0.0.0:8080/ (Press CTRL+C to quit)
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 307-359-843
```

• Docker Second Image build/setup file(i.e., which creates Docker Image).

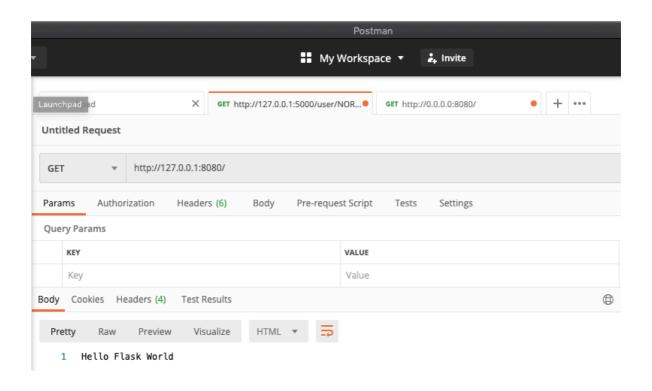
```
    python_flask_rest_api_1

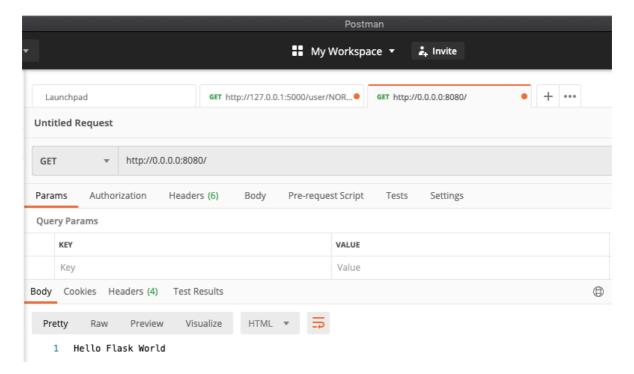
 1 #Everytime Creates New Docker Image
 2 FROM scratch
 4 #Loading Python Environment To Execute
 5 FROM python:latest
 7 #Owner Of The Docker Image
 8 MAINTAINER: Rakesh Flask Example 2
10 #Workdir path for execution
11 WORKDIR /src
12
13 #Adding executable files to work directory
14 ADD Flask_Hello_World.py /src/Flask_Hello_World.py
16 #Installing required libraries
17 RUN pip install flask
18
19
20 ##Installing Required Libraries - Generally will be mentioned in requirements.txt
21 #RUN mkdir -p /src
22 #RUN pip install --upgrade pip
23 #RUN pip install -r requirements.txt
24 #COPY Flask_Hello_World.py /src
25 #COPY requirements.txt /src
26
27
28 #Run app.py when the container launches
29 CMD ["python", "/src/Flask_Hello_World.py"]
```

Python File which run in the Docker Image.

```
Flask_Hello_World.py
    from flask import Flask
    app = Flask(__name__)
 3
    @app.route('/')
 4
 5
    def hello_world():
 6
        return 'Hello Flask World'
 7
 8
    if __name__ == '__main__':
 9
10
        #app.run()
        app.run(host="0.0.0.0", debug=True, port=8080)
11
```

• Check Docker Flask API in Postman.





• We can see 2 Docker Images that we have created just now.

