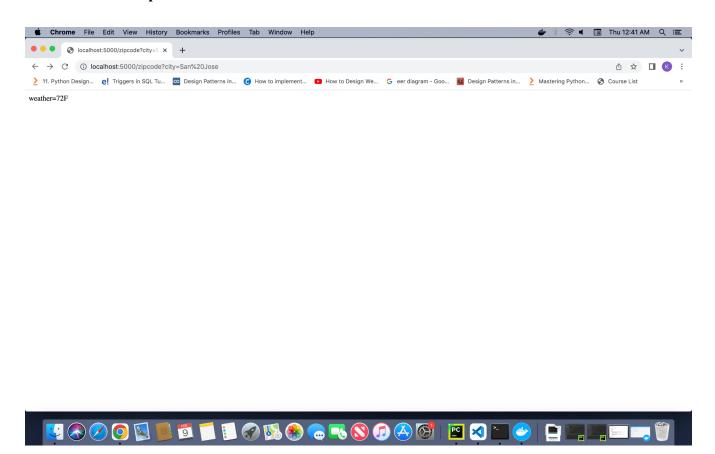
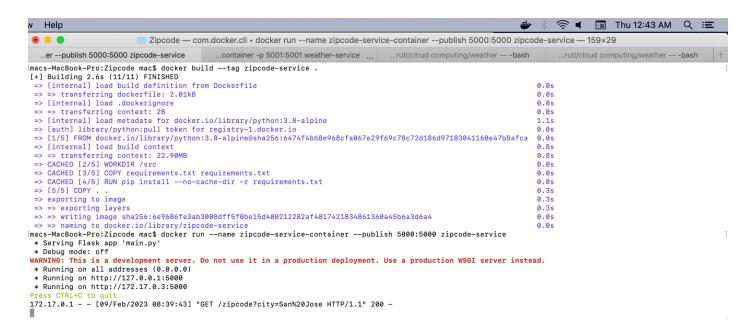
Screenshot of output

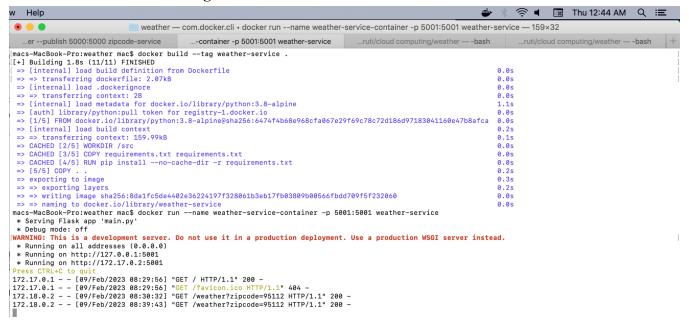
1. Browser output:



2. Screenshot of docker image and container of zipcode service



3. Screenshot of docker image and container of weather service



- 4. Creating network of zip code and weather + commands
- a. Create a network of the service whom you want to talk to using following command and inspect the network.



b. Initially network does not contain any containers

```
weather — -bash — 149×41
  ...--publish 5000:5000 zipcode-service
                                                       ...ntainer -p 5001:5001 weather-service
Last login: Wed Feb 8 23:36:58 on ttys000 macs-MacBook-Pro:weather mac$ docker network create zipcode-weather-network
a7be808f4f34eb9be120a0da6d0daf4ddad2cb6a5f1a884900117f641d962f34
macs-MacBook-Pro:weather mac$ docker network inspect zipcode-weather-network
           "Name": "zipcode-weather-network",
"Id": "a7be808f4f34eb9be120a0da6d0daf4ddad2cb6a5f1a884900117f641d962f34",
           "Created": "2023-02-09T07:58:16.646455436Z"
"Scope": "local",
"Driver": "bridge",
           "EnableIPv6": false,
            "IPAM": {
                "Driver": "default",
"Options": {},
                 "Config": [
                           "Subnet": "172.18.0.0/16",
"Gateway": "172.18.0.1"
                ]
           },
"Internal": false,
-%chle": fals
           "Attachable": false,
"Ingress": false,
           "ConfigFrom": {
    "Network":
           "ConfigOnly": false,
           "Options": {},
           "Labels": {}
```

c. Add containers to the network using following commands

```
| J
| macs-MacBook-Pro:weather mac$ docker network connect zipcode-weather-network zipcode-service-container
| macs-MacBook-Pro:weather mac$ docker network connect zipcode-weather-network weather-service-container
| macs-MacBook-Pro:weather mac$ docker network inspect zipcode-weather-network
| [
```

d. Screenshot of successfully added networks

```
w Help
                                                                                                                                                               🤶 ◀ 🖫 Thu 12:46 AM 🔾 📜
                                                                                         weather — -bash — 159×53
    ...er --publish 5000:5000 zipcode-service
                                                                                                             ...ruti/cloud computing/weather — -bash
                                                          .-container -p 5001:5001 weather-service
                                                                                                                                                                ...ruti/cloud computing/weather - -bash
[macs-MacBook-Pro:weather mac$ docker network connect zipcode-weather-network zipcode-service-container
[macs-MacBook-Pro:weather mac$ docker network inspect zipcode-weather-network
            "Name": "zipcode-weather-network",
           "Name": "zipcode-weather-network",
"Id": "a7be888f4f34eb9be128adda6dd0af4ddad2cb6a5f1a884900117f641d962f34",
"Created": "2023-02-09T07:58:16.646455436Z",
"Scope": "local",
"Driver": "bridge",
"EnableIPv6": false,
           "IPAM": {
    "Driver": "default",
    "Options": {},
    "Config": [
                          "Subnet": "172.18.0.0/16",
"Gateway": "172.18.0.1"
                ]
           },
"Internal": false,
           "Attachable": false,
"Ingress": false,
           "ConfigFrom": {
    "Network": ""
          "Containers": {
                "567848f6e2737b75048f8c7db06987696e5b1c6563a8f9a756a59dc9d48bc4ae": {
"Name": "weather-service-container",
                     },
"56b6ad3b4b7edf542a7eb14a868a27817bd7f761df6a683d5f48854b9baca3a1": {
                      "Name": "zipcode-service-container"
                     "Name": "ZIpcode=service-container",
"EndpointID": "70657ecdd5083e301e187efbe80fd843e6c4cc018e3c1a440cfb97405f2342c8",
"MacAddress": "02:42:ac:12:00:02",
"IPvAAddress": "172.18.0.2/16",
"IPv6Address": ""
                }
           },
"Options": {},
           "Labels": {}
     }
```

To check the running docker container the following commands + proof of screenshot

				* * ? ◀	Ⅲ Thu 1:00 AM Q Ⅲ
● ● ● ■ weather — -bash — 145×41					
publish 5000:5000 zipcode-servicetainer -p 5001:5001 v		veather-service	cloud computing	g/weather — -bashclo	ud computing/weather — -bash 📗 🕂
e8a38a533a4a weather-service "f e74d661da27c zipcode-service "f macs-MacBook-Pro:weather mac\$ docke CONTAINER ID IMAGE CO	r container ls MMAND lask runhost=0" lask runhost=0"	CREATED 3 minutes ago 23 minutes ago CREATED 6 minutes ago	STATUS Up 3 minutes Up 23 minutes STATUS Up 6 minutes	PORTS 0.0.0.0:5001->5001/tcp 0.0.0:5000->5000/tcp PORTS 0.0.0.0:5000->5000/tcp	NAMES weather-service-container zipcode-service-container NAMES zipcode-service-container
	r images D CREATED e3ab3 22 minutes ago de440 30 minutes ago 30005 42 minutes ago e3480 58 minutes ago 73c01 About an hour a 9efe9 About an hour a 48d6c 6 days ago ea6a5 16 months ago	14 minutes ago SIZE 84.2MB 77.4MB 77.4MB 84.2MB 84.2MB ago 77.4MB	Up 14 minutes	0.0.0.0:5001->5001/tcp	zipcode-service-container weather-service-container
56b6ad3b4b7e zipcode-service "f	MMAND lask runhost=0" lask runhost=0"	CREATED 22 minutes ago 30 minutes ago	STATUS Up 22 minutes Up 30 minutes	PORTS 0.0.0:5000->5000/tcp 0.0.0:5001->5001/tcp	NAMES zipcode-service-container weather-service-container