# **Docker Compose**

#### Part 1:

# Step 1:

Create the following files inside a directory in your local machine

- a. app.py this is for the Flask App that you want to run
- b. requirements.txt this contains the requirements, in this case flask and redis
- c. Dockerfile to setup the flask environment
- d. docker-compose.yml creating two services namely web for flask application and another redis for redis image to store the counter

# Step 2:

Run 'docker-compose build' to build the containers specified in the docker-compose file

### Step 3:

Run 'docker-compose up' to start the container

### Step 4:

Navigate to http://localhost:5000 to check the webserver

```
| Retay@Quantiphi=913: -/Desktop/Docker_Assessment/QZ | Retay@Quantiphi=913: -/Desktop/Docker_Assessme
```



### Part - 2

# Step 1:

To attach a volume to the container, add volumes in the docker-compose.yml file with the mapping of directories

# Step 2:

Now run 'docker-compose build' to rebuild the images with the added volumes

# Step 3:

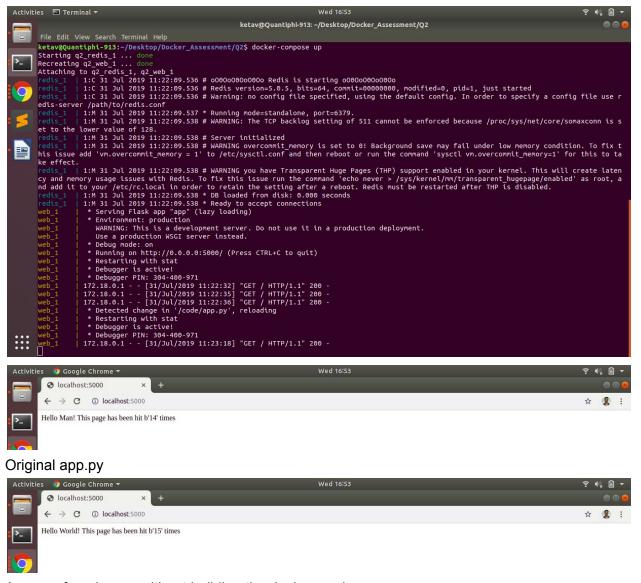
To start the containers in daemon (to later edit files in same terminal) run 'docker-compose up -d' or run 'docker-compose up' to run the containers in normal Mode

# Step 4:

Now edit the file in the container using 'docker exec -it [container-id] bash' and then using any in terminal text editor as nano or vim

### Step 5:

Or you can edit in the files that are locally stored in your machine as the volumes are attached and would reflect the changes even from the outside



App.py after change without building the docker again

This is a host volume type of volume attached to the container to reflect changes from local source to inside of the container.