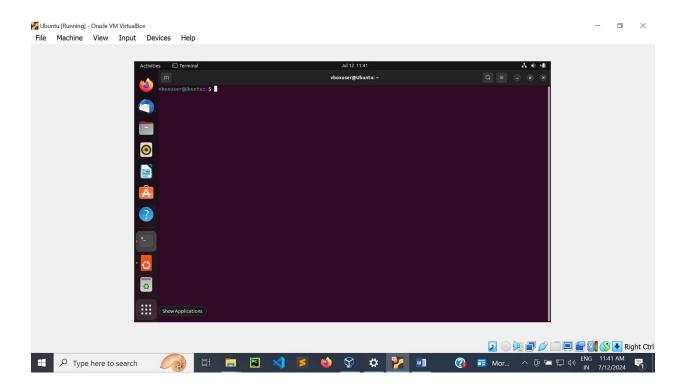
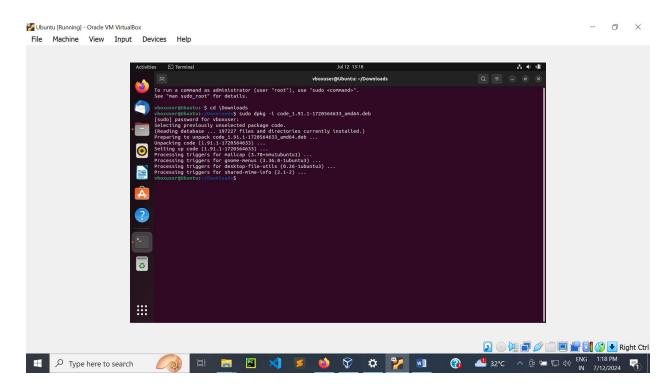
https://github.com/PranavPathak10/Pranav W11 Graded-Assignment

1. Hosting Ubuntu virtual machine using Oracle VM virtual box



2. Installation of Visual Studio code on ubuntu VM

After downloading the visual studio code, used the following command to install it on running Ubuntu sudo dpkg -i code_1.91.2-1720564633_amd64.deb



3. Setting up Python

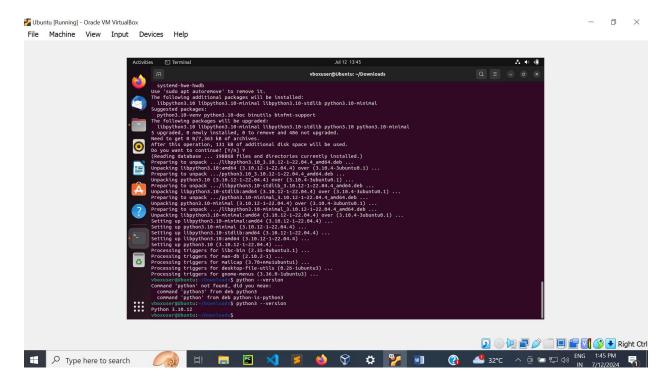
Commands used:

o Command 1: sudo apt update

o Command 2: sudo apt install software-properties-common

o Command 3: sudo add-apt-repository ppa:deadsnakes/ppa

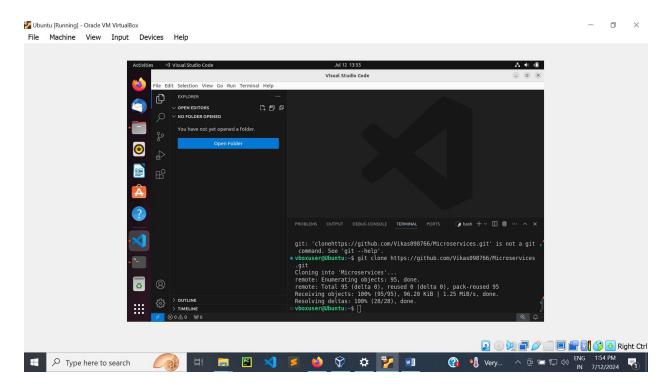
o Command 4: sudo apt install python3.9



4. Clone the Git repository

Command used:

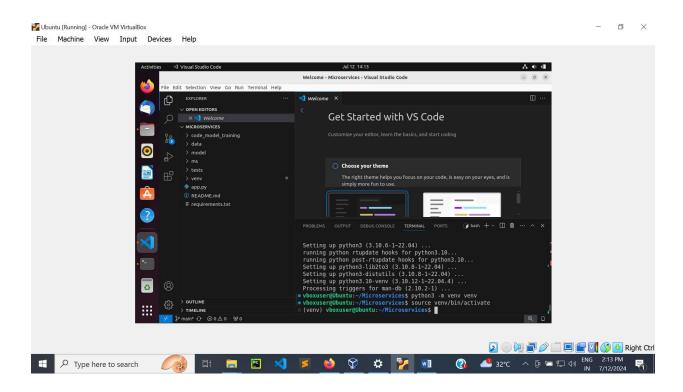
git clone https://github.com/Vikas098766/Microservices.git



5.Creating virtual environment

Command used:

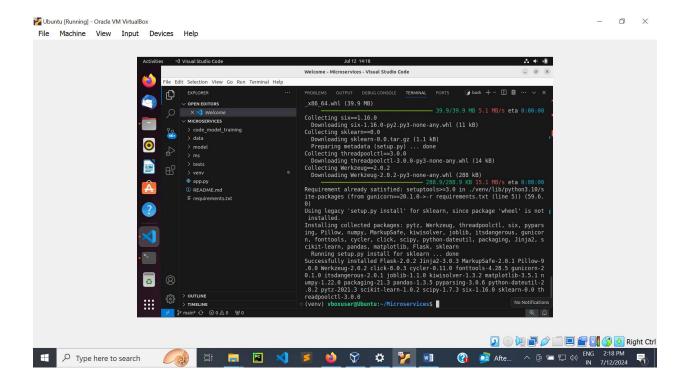
Command: python3 -m venv venv Command: source venv/bin/activate



6. Installing all dependencies from requirements.txt file

Command used:

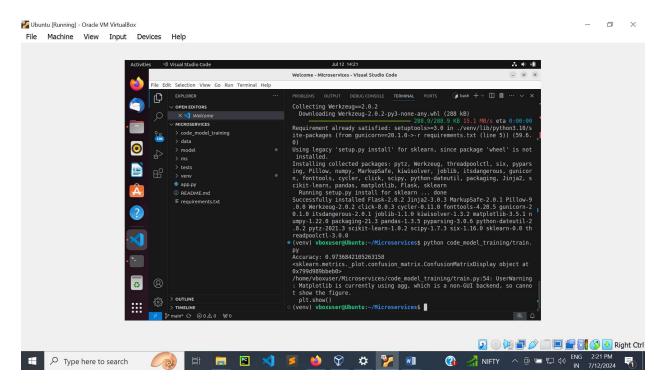
pip install -r requirements.txt



7. Training and saving the model:

Command used:

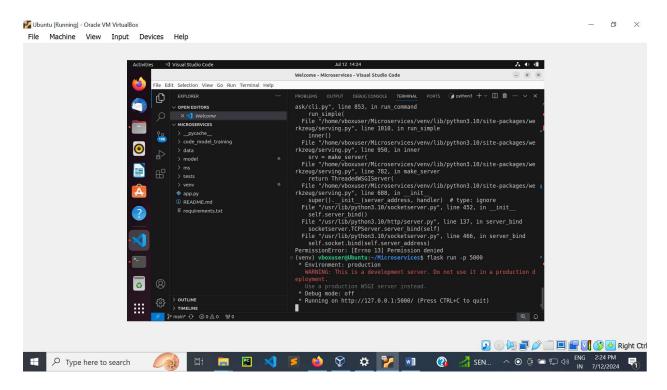
python code_model_training/train.py



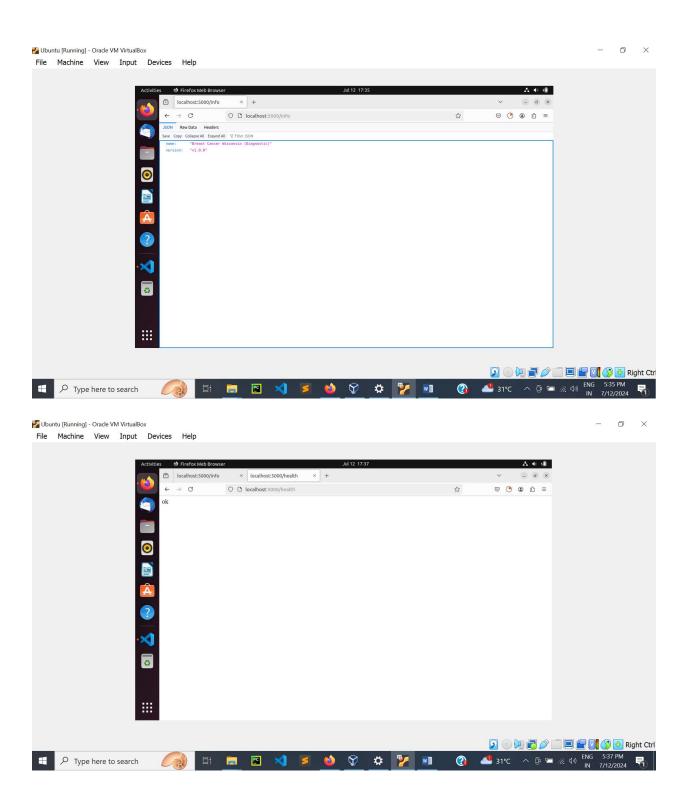
8. Testing the Flask web application:

Command:

flask run -p 5000



9. Testing the application:



10. Creating the docker image and running the containerized application

Docker file creation:

FROM python:3.8-slim

WORKDIR /app

COPY requirements.txt requirements.txt

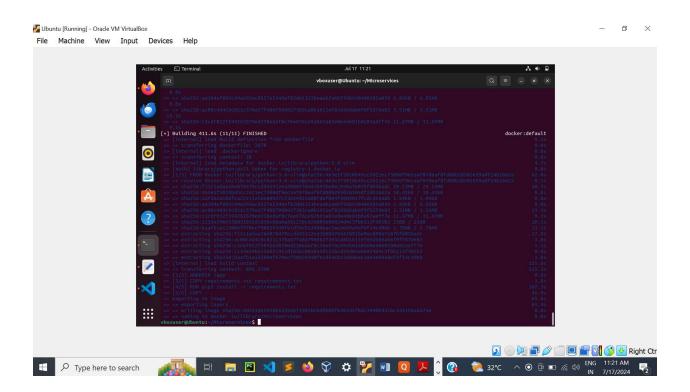
RUN pip3 install -r requirements.txt

COPY..

EXPOSE 5000

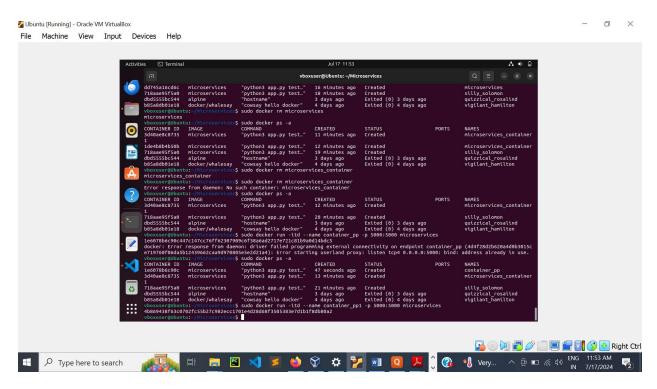
CMD ["python3", "app.py", "test.py"]

command used to build an image: sudo docker build -t microservices .



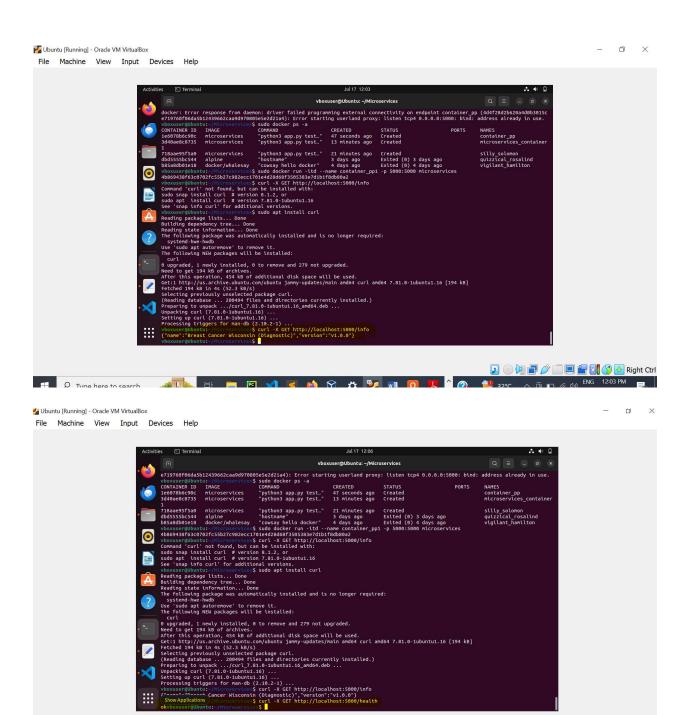
Running the containerized application:

Command used: sudo docker run -itd -name container_pp1 -p 5000:5000 microservices



command used : curl -X GET http://localhost:5000/info

curl -X GET http://localhost:5000/health



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