Lab 1- Install Google App Engine. Create and execute hello world app using python

<https://www.youtube.com/watch?v=7UtLfGnmh1U>

STEPS

1. Install google cloud sdk
2. Find location of dev\_appserver in google cloud sdk folder
3. Make 2 files called hello.py and app.yaml with code written in it
4. Go to console.google.com/iam-admin and create a project there and give access to app engine deployer
5. Open google cloud sdk CLI and enter py google-cloud-sdk\bin\dev\_appserver.py C:\Users\anann\Documents\vit\TY\sem6\CC\cloudcomputing
6. Open local host 8080

OR

1. Take location of flask app and put the cd folder location
2. gcloud auth login
3. choose account
4. gcloud init
5. make new project (if It doesn’t work use gcloud projects create project\_name)
6. gcloud config set project project\_name
7. python -m venv myenv
8. myenv\Scripts\activate
9. copy main.py myenv
10. copy app.yaml myenv
11. gcloud run deploy my-flask-app --source .
12. choose region

CODE-

**main.py file-**

from flask import Flask

app = Flask(\_\_name\_\_)

@app.route('/')

def hello():

return 'Hello, World!'

if \_\_name\_\_ == '\_\_main\_\_':

app.run(host='0.0.0.0', port=8080)

**app.yaml-**

runtime: python310

entrypoint: gunicorn -b :$PORT main:app

handlers:

- url: /.\*

script: auto

**Dockerfile-**

FROM python:3.9.17-bookworm

ENV PYTHONUNBUFFERED True

ENV APP\_HOME /back-end

WORKDIR $APP\_HOME

COPY . ./

RUN pip install --no-cache-dir --upgrade pip

RUN pip install --no-cache-dir -r requirements.txt

CMD exec gunicorn --bind :$PORT --workers 1 --threads 8 --timeout 0 app:app

**.dockerfileignore-**

Dockerfile

README.md

\*.pyc

\*.pyo

\*.pyd

\_\_pycache\_\_

.pytest\_cache

**requirements.txt-**

Flask

gunicorn

python-dotenv

flask-cors