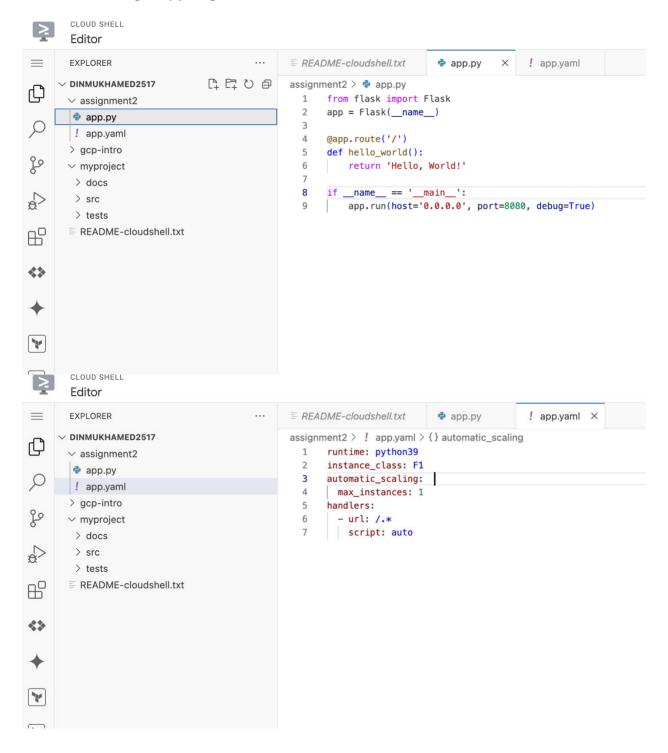
Exercise 1: Google App Engine



Exercise 2: Building with Google Cloud Functions

```
hello-world-function > JS index.js > ...

1   exports.helloWorld = (req, res) => {
2    res.send('Hello, World!');
3  };
```

```
dinmukhamed2517@cloudshell!- (newproject-s@c24)$ gcloud services enable cloudfunctions.googleapis.com
Operation "operations/act.p2-255314247350-6d56d92-bd22-41ca-a402-37c7f42f7bb6" finished successfully.
dinmukhamed2517@cloudshell:- (newproject-s@c24)$
```

```
dinmukhamed25178cloudshell:- (newproject-a8e24)$ cd hello-world-function/
dinmukhamed25178cloudshell:-/hello-world-function (newproject-a8e24)$ gcloud functions deploy helloWorldFunction --runtime nodejs18 --trigger-http --allow-unauthenticated
As of this Cloud SDK release, new functions will be deployed as 2nd gen functions by default. This is equivalent to currently deploying new with the --gen2 flag. Existing 1st gen
functions will not be impacted and will continue to deploy as 1st gen functions,
You can disable this behavior by explicitly specifying the --no-gen2 flag or by setting the functions/gen2 config property to 'off'.
To learn more about the differences between 1st gen and 2nd gen functions, visit:
https://cloud.gcugie.com/functions/dos/Concepts/version-comparison
NUMBENT (gcloud.functions.deploy) ResponseError: status=[403], code=[Ok], message=[Write access to project 'newproject-a8e24' was denied: please check billing account associated and
retry]
dinnukhamed25178cloudshell:-/hello-world-function (newproject-a8e24)$
```

Exercise 3: Containerizing Applications

```
assignment2 > app.py

print("Hello from inside the container!")
```

```
assignment2 > * Dockerfile
       # Use an official Python runtime as a parent image
  2
       FROM python:3.9-slim
      # Set the working directory in the container
  4
      WORKDIR /app
  5
  6
  7
      # Copy the current directory contents into the container at /app
  8
       COPY . /app
  9
      # Run the application
 10
      CMD ["python", "app.py"]
 11
```

```
=> => writing image sha256:f8bbcd52de8f1d4e13d9e9b17d4019c66b6843988c432 0.0s
dinmukhamed2517@cloudshell:~/assignment2 (newproject-a8e24)$ docker run --rm hello-world-app
Hello from inside the container!ignment2 (newproject-a8e24)$
dinmukhamed2517@cloudshell:~/assignment2 (newproject-a8e24)$
```