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Batch: L9

Aim: Install Google App Engine. Create hello world app and other simple web application using python/Java.
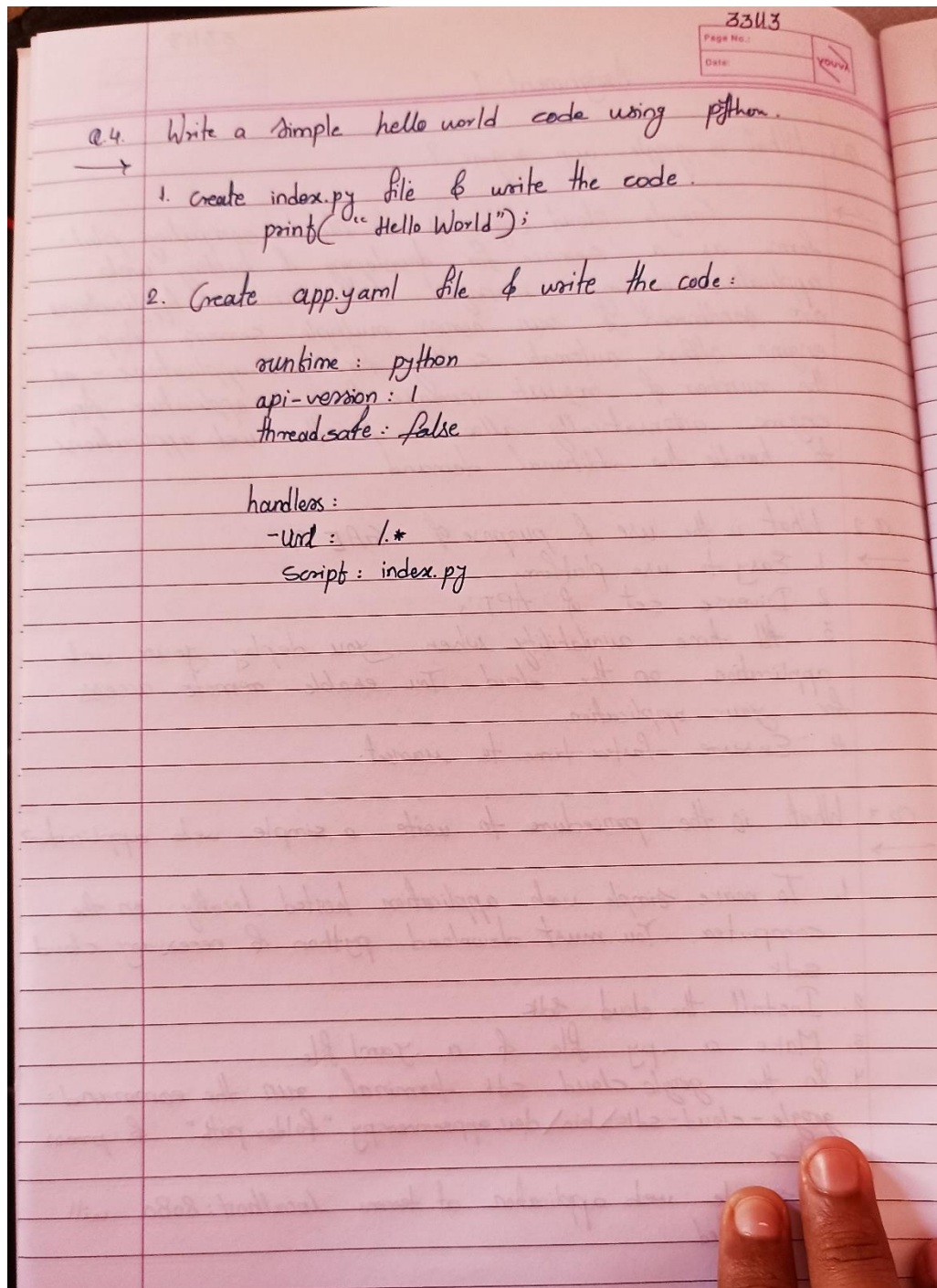
Assignment -1

Q.1 What is google app engine?

→ Google cloud engine is a cloud computing platform as a service for developing & hosting web applications in google - managed data centres. Applications are sandboxed to run across multiple servers. App engine offers automatic scaling for sub-applications - as the number of requests increase for an application. App engine automatically allocates for the web applications to handle the additional demand.

Q.2 What is the use & purpose of GAE?

→ 1. Easy to use platform.
2. Diverse set of API's.
3. All time availability when you deploy your web application on the cloud. You enable remote access for your application.
4. Ensure faster-time to market.

Q.3 What is the procedure to write a simple web application?

→

1. To make simple web application hosted locally on the computer. You must download python & necessary cloud sdk.
2. Install the cloud sdk.
3. Make a .py file & a .yaml file.
4. In the google cloud sdk terminal, run the command: google-cloud-sdk\bin\dev-appserver.py "folder path" & press enter.
5. A simple web application at terms. localhost:8080 will be created.

Q.4. Write a simple hello world code using python.

→

1. Create index.py file & write the code.
   print("Hello World");

2. Create app.yaml file & write the code:

   runtime : python
   api-version : 1
   thread.safe : false

   handlers :
   -url :   /.*
     Script : index.py

Conclusion: Installed Google SDK and wrote the very first "Hello World" program.

Browser showing: localhost:8080 — "Hello Sumit"

index.py - Notepad:

```
print("Hello Sumit")
```

app.yaml - Notepad:

```
runtime: python

instance_class: F2

env_variables:
  BUCKET_NAME: "example-gcs-bucket"

handlers:
- url: /images
  static_dir: static/images

- url: /.*
  secure: always
  redirect_http_response_code: 301
  script: index.py
```