## **CLOUD COMPUTING**

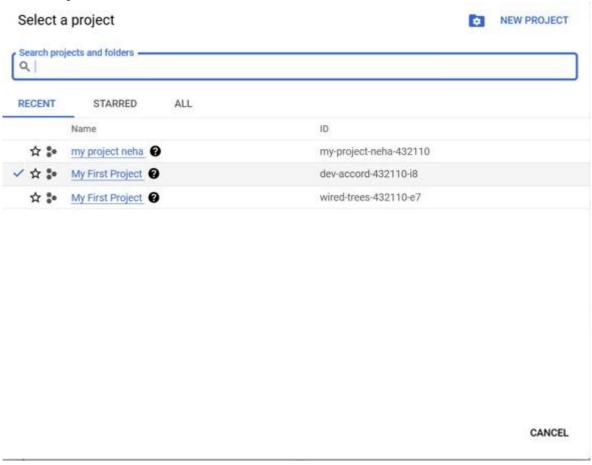
## PRACTICAL 4:To Demonstrate Platform as a Service using Google app Engine

Name: Ashwini Shetty

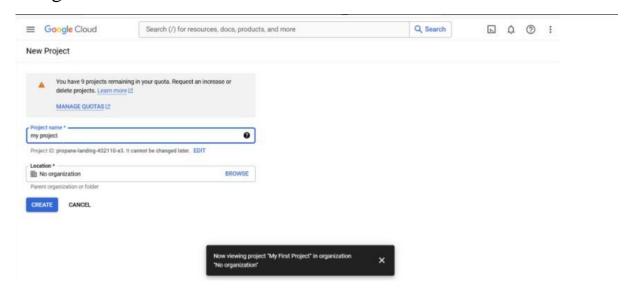
Roll No: A063

MSc SDS Batch 2

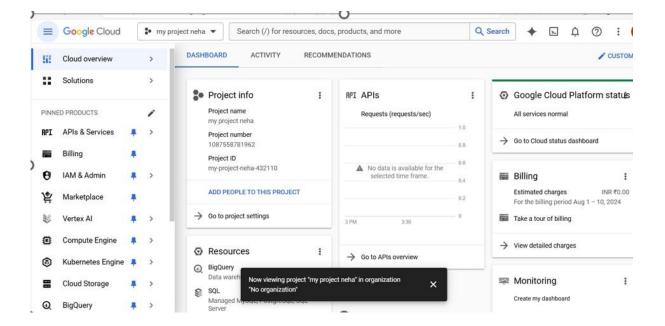
1. Create an account with Google Cloud Platform and Click on My First Project and then NEW PROJECT.



2. Provide Project name "my project". Location can be No organization.



- 2. After Google cloud creates new project as per name specified in previous step, it opens up project home, showing dashboard.
- 3.



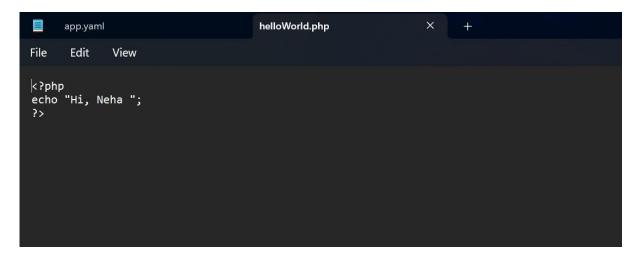
4. Create a new configuration file app.yaml. yaml file contains information about your app's code, such as the runtime and the latest version identifier. Each service in your app has its own app. yaml file, which acts as a descriptor for its deployment.

```
app.yaml × +

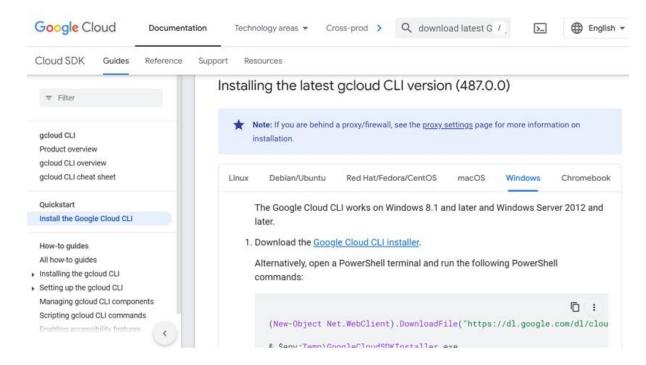
File Edit View

runtime:php55
api_version:1
handlers:
- url: /.*
  script: helloWorld.php
```

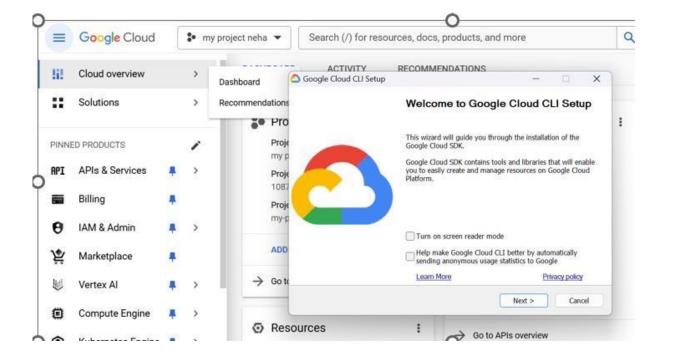
5. Create a PHP code to upload and run and save it as "helloWorld.php"



6:In order to deploy and run the PHP code on Google cloud platform, visit https://cloud.google.com/sdk/docs to download latest Google Cloud SDK and to know how to install it.

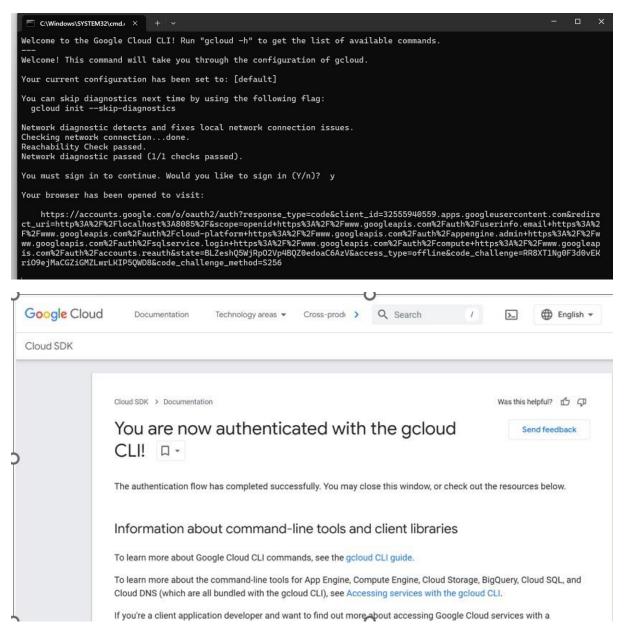


7.open Google cloud SDK installer. It will take some time to download and install SDK from Google Server. At end of installation check Start Google Cloud SDK Shell and Run 'gcloud init' to configure the Cloud SDK.





8. Previous step will open up command prompt with gcloud init command running automatically. It will ask you to login using Google account on which you have joined Google Cloud Platform. After successful login web browser page of cloud.google.com will show You are now authenticated with Google Cloud SDK.



9. In command prompt, running in background will ask you to select project you want to deploy and run. Enter appropriate number and hit enter.

```
Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:
    gcloud init --skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

You must sign in to continue. Would you like to sign in (Y/n)? y

Your browser has been opened to visit:

https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=http%3

A%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspongine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspongine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fspongine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth%2Fsqlservice.login+https%3A%2F%2Fww.googleapis.com%2Fauth%2Faccounts.reauth%2Fsqlservice.login+https%3A%2F%2Fww.googleapis.com%2Fauth%2Faccounts.reauth%2Faccounts.reauth%2Fsqlservice.login+https%3A%2F%2Fww.googleapis.com%2Fauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.reauth%2Faccounts.r
```

## 10. Change directory to folder where PHP and YAML file is residing.

```
* Commands that require authentication will use nehatmathew@gmail.com by default
* Commands will reference project 'my-project-neha-432110' by default
Run 'gcloud help config' to learn how to change individual settings

This gcloud configuration is called [default]. You can create additional configurations if you work with multiple accounts and/or pro jects.
Run 'gcloud topic configurations' to learn more.

Some things to try next:

* Run 'gcloud --help' to see the Cloud Platform services you can interact with. And run 'gcloud help COMMAND' to get help on any gcloud command.

* Run 'gcloud topic --help' to learn about advanced features of the CLI like arg files and output formatting

* Run 'gcloud cheat-sheet' to see a roster of go-to 'gcloud' commands.

C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>dir

Volume in drive C has no label.

Volume Serial Number is 00851-EE9C

Directory of C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK

10-08-2024 16:16 ollR ...
11,65 supercloud-i6x16.ico
10-08-2024 16:20 63,591 uninstaller exe
4 File(s) 65,017 bytes
3 Dir(s) 11,566,944,256 bytes free

C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>
```

11. Type gcloud app deploy and select region of Google Data Center where you want to deploy your app, press 5 and press Enter for asiasouth1, i.e. Mumbai. Press Y to continue with deployment. Result will show URL to launch your GoogleApp. Alternatively you can type gcloud app browse to open your App in browse

```
WARNING: Creating an App Engine application for a project is irreversible and the region cannot be changed. More information about regions is at <a href="https://cloud.google.com/appengine/docs/locations">https://cloud.google.com/appengine/docs/locations</a>.

Please choose the region where you want your App Engine application located:

[1] asia-east1 (supports standard and flexible)
[2] asia-east2 (supports standard and flexible and search_api)
[3] asia-northeast1 (supports standard and flexible and search_api)
[4] asia-northeast2 (supports standard and flexible and search_api)
[5] asia-southeast3 (supports standard and flexible and search_api)
[6] asia-southeast1 (supports standard and flexible)
[8] asia-southeast2 (supports standard and flexible)
[9] australia-southeast1 (supports standard and flexible and search_api)
[10] europe-central2 (supports standard and flexible and search_api)
[11] europe-west (supports standard and flexible and search_api)
[12] europe-west2 (supports standard and flexible and search_api)
[13] europe-west3 (supports standard and flexible and search_api)
[14] europe-west6 (supports standard and flexible and search_api)
[15] northamerica-northeast1 (supports standard and flexible and search_api)
[16] southamerica-east1 (supports standard and flexible and search_api)
[17] us-central (supports standard and flexible and search_api)
[18] us-east1 (supports standard and flexible and search_api)
[19] us-west1 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible and search_api)
[21] us-west2 (supports standard and flexible and search_api)
[22] us-west3 (supports standard and flexible and search_api)
[23] us-west4 (supports standard and flexible and search_api)
[24] cancel
[25] Please enter your numeric choice: 5

Creating App Engine application in project [my-project-neha-432110] and region [asia-northeast3]...\
```

```
| Composition |
```