

SVKM'S NMIMS Nilkamal School of Mathematics, Applied Statistics & Analytics

Master of Science (Statistics & Data Science)

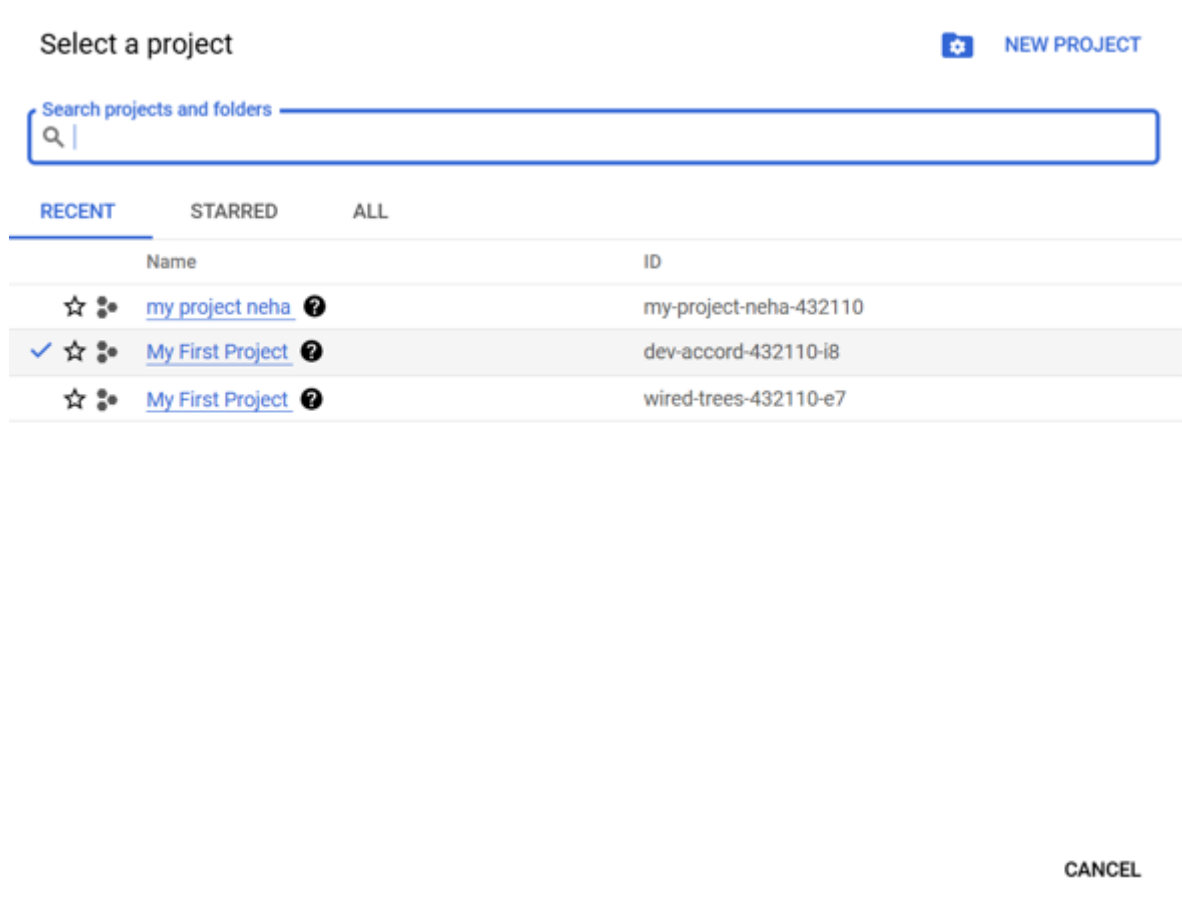
Practical 4: To Demonstrate Platform as a Service using Google app Engine

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Roll No: A042

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



Select a project NEW PROJECT

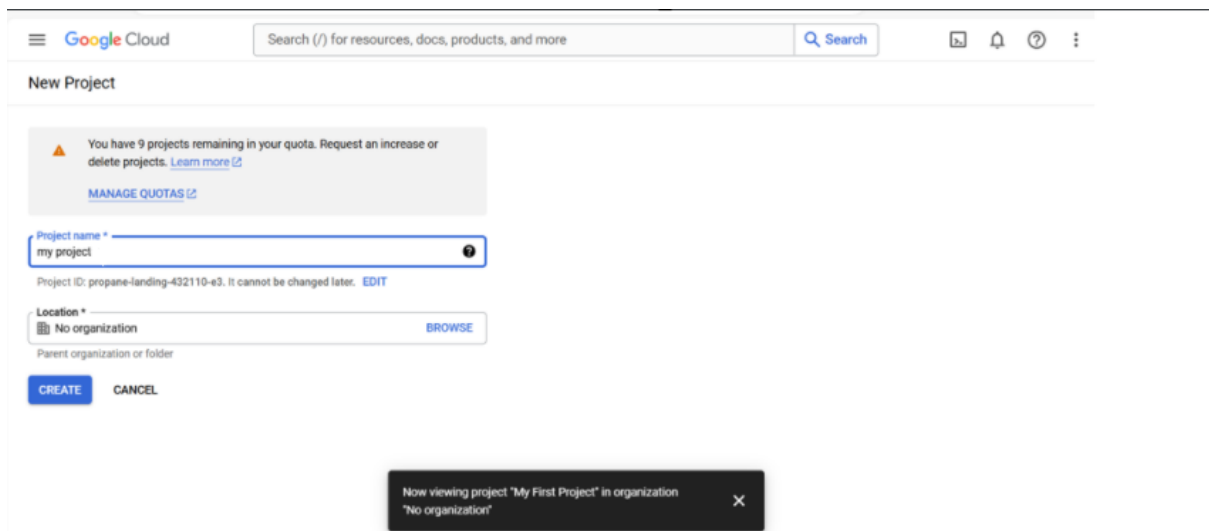
Search projects and folders

RECENT STARRED ALL

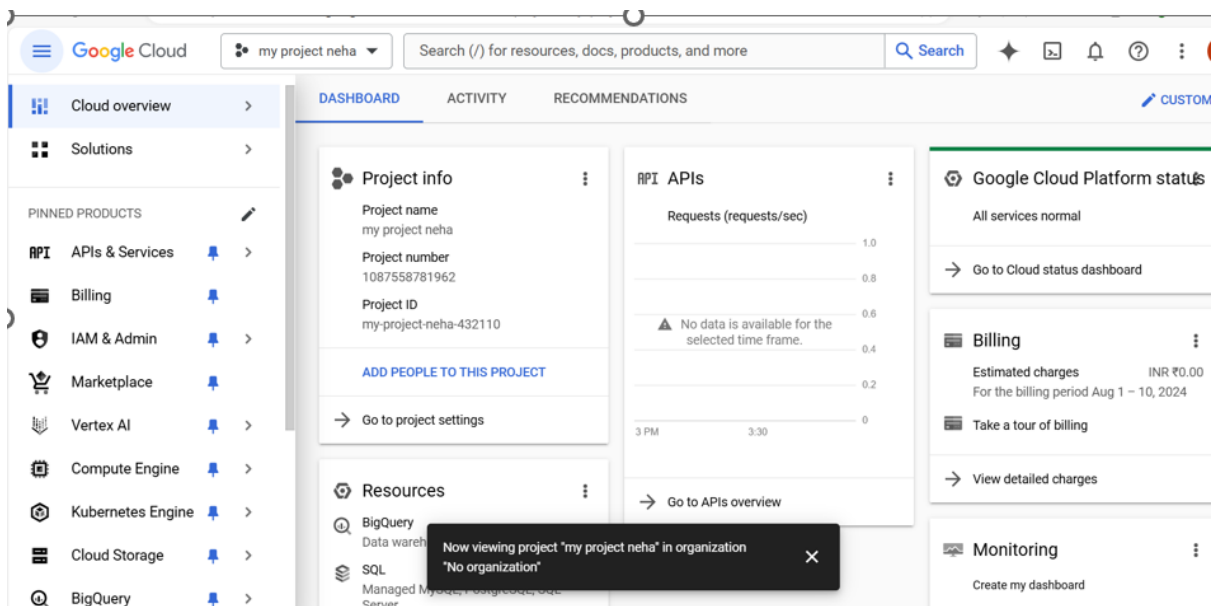
	Name	ID
☆	my project neha ?	my-project-neha-432110
✓ ☆	My First Project ?	dev-accord-432110-i8
☆	My First Project ?	wired-trees-432110-e7

CANCEL

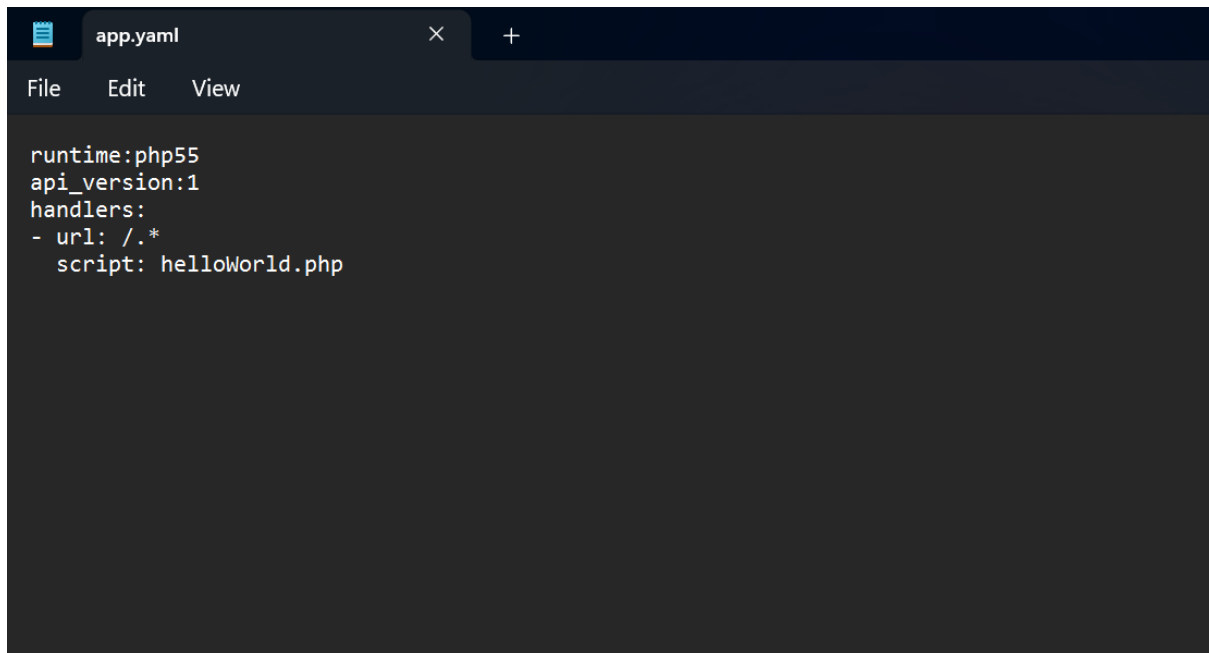
2. Provide Project name "my project ". Location can be No organization.



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

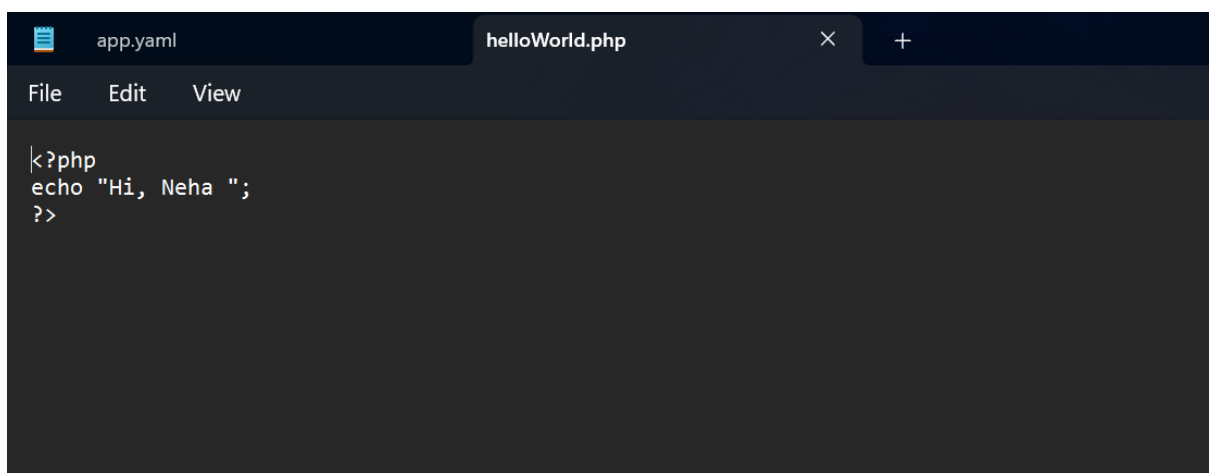


4. Create a new configuration file app.yaml. yaml file contains information about your app's code, such as the runtime and the latest version identifier. Each service in your app has its own app. yaml file, which acts as a descriptor for its deployment.

A screenshot of a code editor with a dark theme. The top bar shows a tab labeled 'app.yaml' with a close button (X) and a plus sign (+). Below the top bar is a menu bar with 'File', 'Edit', and 'View'. The main editor area contains the following YAML code:

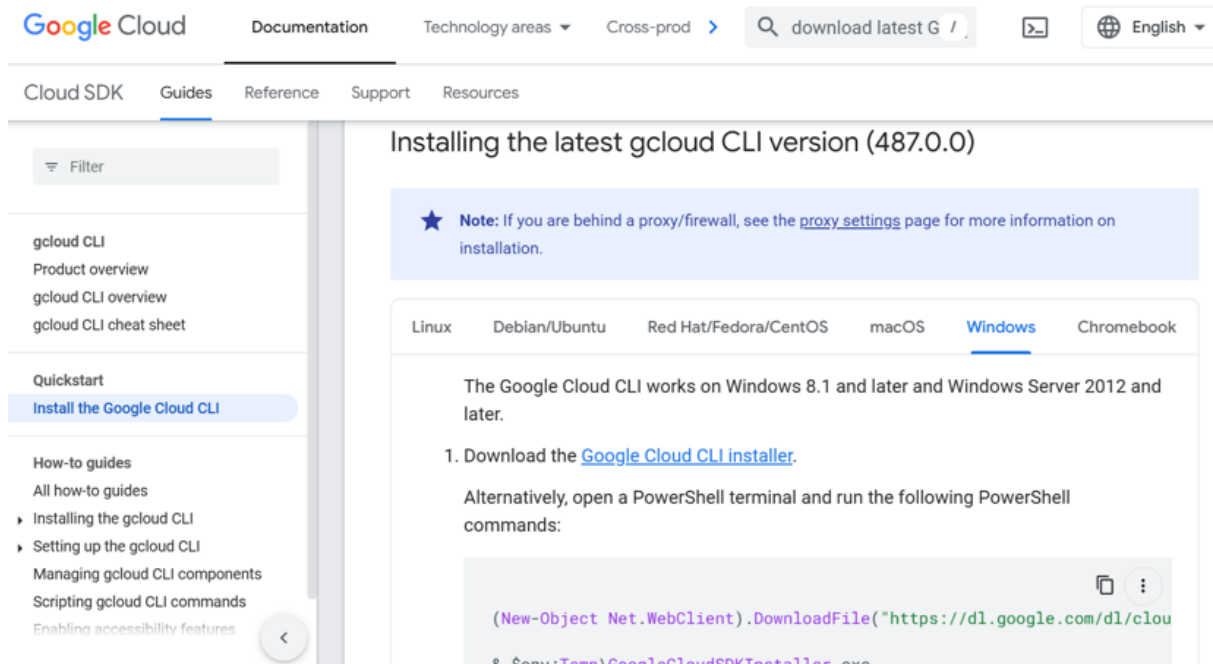
```
runtime:php55
api_version:1
handlers:
- url: /.*
  script: helloWorld.php
```

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

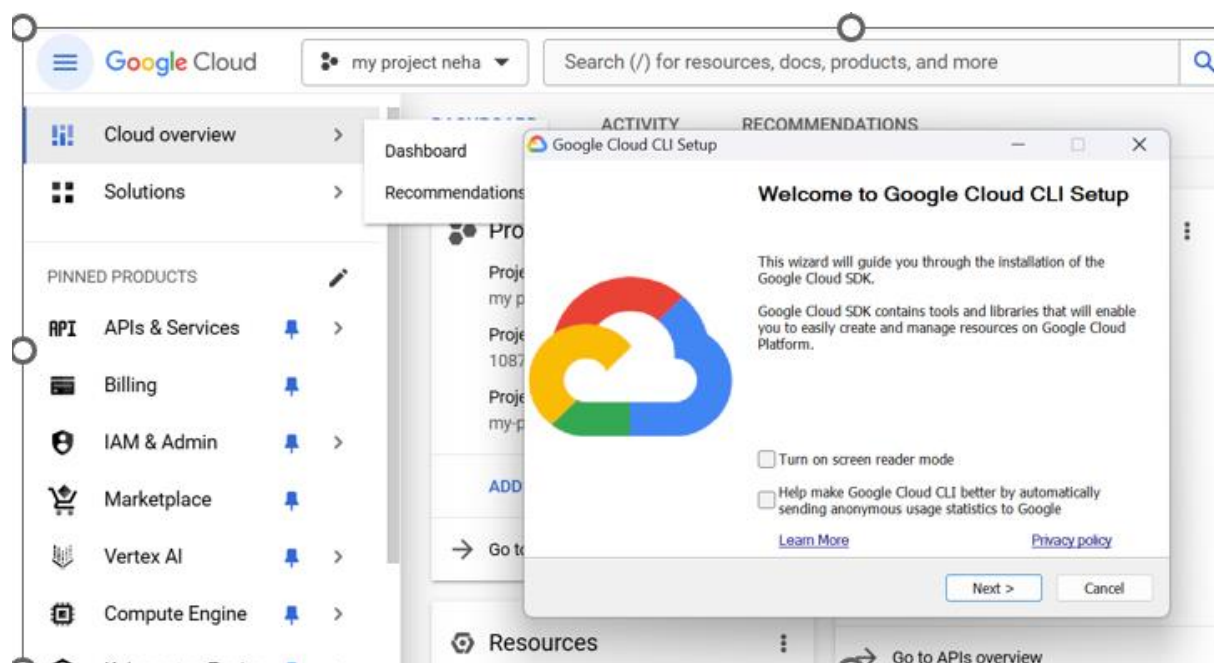
A screenshot of a code editor with a dark theme. The top bar shows two tabs: 'app.yaml' and 'helloWorld.php', both with close buttons (X) and a plus sign (+). Below the top bar is a menu bar with 'File', 'Edit', and 'View'. The main editor area contains the following PHP code:

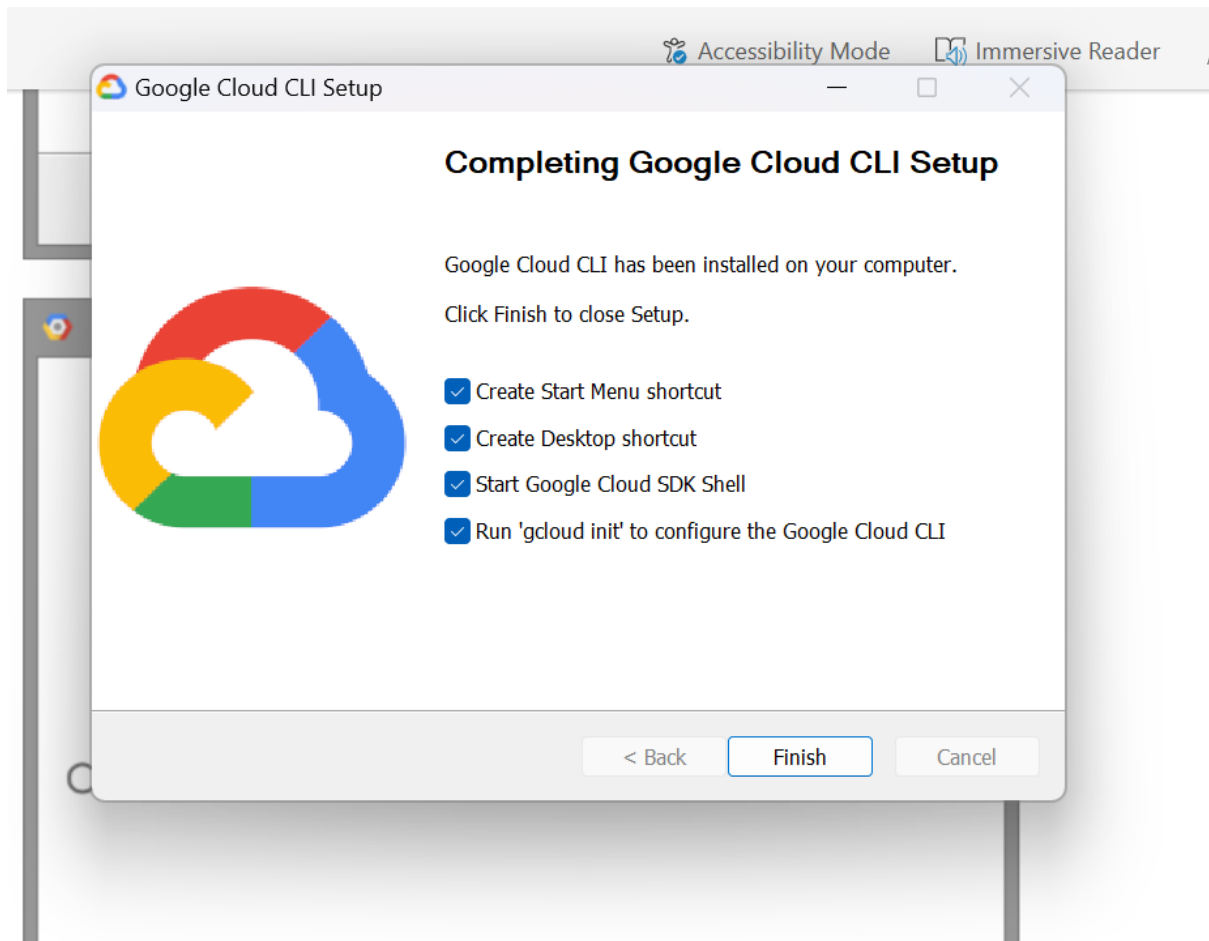
```
<?php
echo "Hi, Neha ";
?>
```

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.

```
C:\Windows\SYSTEM32\cmd.exe
Welcome to the Google Cloud CLI! Run "gcloud -h" to get the list of available commands.
---
Welcome! This command will take you through the configuration of gcloud.

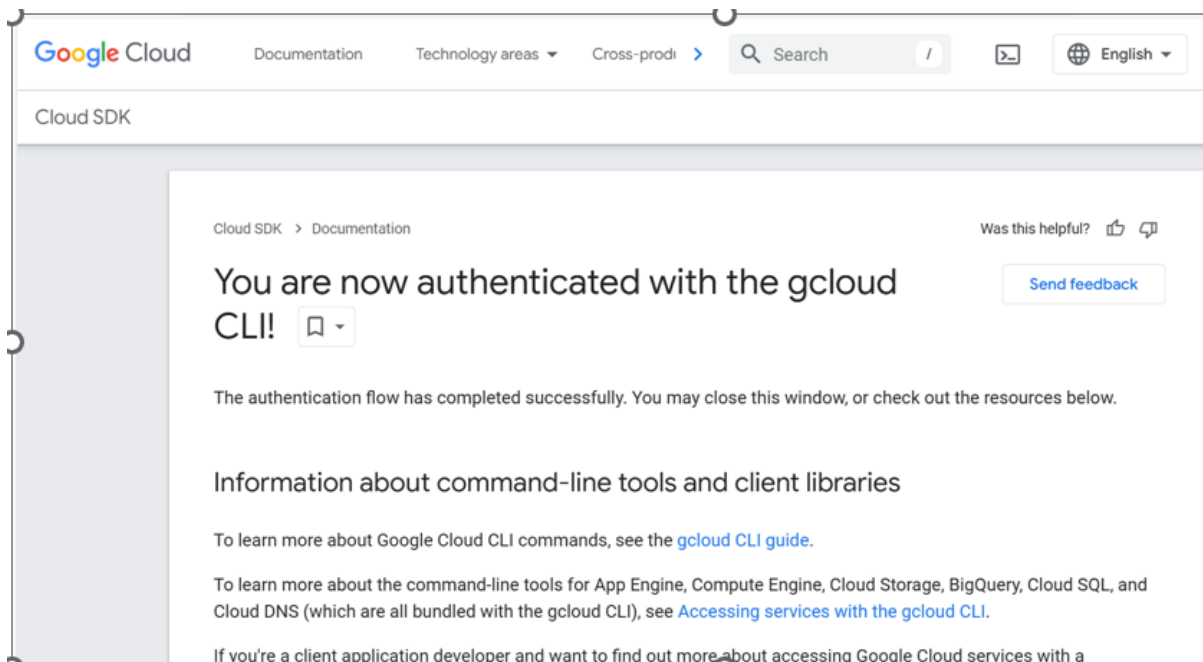
Your current configuration has been set to: [default]

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%3A%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&state=BLZeshQ5WjRp02Vp4BQZ0edoaC6AzV&access_type=offline&code_challenge=RR8XT1Ng0F3d0vEKri09ejMaCGZiGMZLwrLKIP5QWD8&code_challenge_method=S256
```



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.

```
C:\Windows\SYSTEM32\cmd.exe
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%3A%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&state=BLZeshQ5WjRp02Vp4BQZ0edoaC6AzV&access_type=offline&code_challenge=RR8XT1Ng0F3d0vEKri09ejMacGZiGMZLwrLkIP5QwD8&code_challenge_method=S256

You are signed in as: [nehatmathew@gmail.com].

Pick cloud project to use:
[1] dev-accord-432110-18
[2] my-project-neha-432110
[3] wired-trees-432110-e7
[4] Enter a project ID
[5] Create a new project
Please enter numeric choice or text value (must exactly match list item): |
```

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

```

* Commands that require authentication will use nehamathew@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 projects.
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 0051-EE9C

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

10-08-2024 16:20 <DIR>          .
10-08-2024 16:16 <DIR>          ..
10-08-2024 16:17          275 cloud_env.bat
10-08-2024 16:18 <DIR>          google-cloud-sdk
10-08-2024 16:20          1 install_mode
12-06-2024 00:00          1,150 supercloud-16x16.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 asia-south1, 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
<https://cloud.google.com/appengine/docs/locations>.

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-northeast3 (supports standard and flexible and search_api)
[6] asia-south1     (supports standard and flexible and search_api)
[7] asia-southeast1 (supports standard and flexible)
[8] asia-southeast2 (supports standard and flexible and search_api)
[9] australia-southeast1 (supports standard and flexible and search_api)
[10] europe-central2 (supports standard and flexible)
[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-east4       (supports standard and flexible and search_api)
[20] us-west1       (supports standard and flexible)
[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

Please enter your numeric choice: 5

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

```

```
C:\Windows\SYSTEM32\cmd.exe
[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-east4 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible)
[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
Please enter your numeric choice: 5

Creating App Engine application in project [my-project-neha-432110] and region [asia-northeast3]...done.
Services to deploy:

descriptor: [C:\Users\Neha Mathew\app.yaml]
source: [C:\Users\Neha Mathew]
target project: [my-project-neha-432110]
target service: [default]
target version: [20240810t163645]
target url: [https://my-project-neha-432110.du.r.appspot.com]
target service account: [my-project-neha-432110@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y

Beginning deployment of service [default]...
Created .gcloudignore file. See 'gcloud topic gcloudignore' for details.
```

```
Google Cloud SDK Shell - gcl
#=#

Command killed by keyboard interrupt
Terminate batch job (Y/N)? y

C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>cd..
C:\Users\Neha Mathew\AppData\Local\Google>cd Cloud SDK
C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK>cd cc
C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK\cc>gcloud app deploy
Services to deploy:

descriptor: [C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK\cc\app.yaml]
source: [C:\Users\Neha Mathew\AppData\Local\Google\Cloud SDK\cc]
target project: [my-project-neha-432110]
target service: [default]
target version: [20240817t140855]
target url: [https://my-project-neha-432110.du.r.appspot.com]
target service account: [my-project-neha-432110@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y

Beginning deployment of service [default]...
Created .gcloudignore file. See 'gcloud topic gcloudignore' for details.
#=#
#=# Uploading 2 files to Google Cloud Storage =#
#=#
File upload done.
Updating service [default]...\
```