



Shri. Vile Parle Kelavani Mandal's

Institute of Technology, Dhule

Survey No. 499, Plot No.2, Behind Gurudwara, Mumbai Agra Highway, Dhule (MS)

Name:- Mohammed Meraj Mohammed Ashfaque

Roll no:- 41 Date :-

Branch :-Final Year B.Tech (Computer Department)

Exp. No:-05

Subject:- Cloud Computing Lab

Sign :-

Remark :-

Aim : Implement and configure google app engine to deploy python program application

Welcome

You're working in AppEngineMohammedMeraj

Project number: 750847512853 Project ID: shining-reality-476610-v3

Dashboard Cloud Hub New

Create a VM Run a query in BigQuery Deploy an application

Create a storage bucket

Try Gemini Cloud Assist chat (Tip: use Alt G to open and close the chat)

Chat now

Quick access

APIs & Services IAM & Admin Billing Compute Engine

Cloud Storage BigQuery VPC network Kubernetes Engine

View all products

Now viewing project "AppEngineMohammedMeraj" in organization "No organization"

29°C Mostly cloudy

ING IN

console.cloud.google.com/welcome?project=vibrant-airship-453118-g6

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. [Learn more](#)

Dismiss Start free

Google Cloud My First Project

Welcome

You're working in My First Project

Project number: 935772258402

Dashboard Cloud Hub New

Create a VM Run a VM Create a storage bucket

Quick access API APIs & Services Cloud Storage View all products

Top results

- App Engine Product: Managed app platform
- Cloud Run Product: Fully managed application platform
- Load balancing Product page: Network Services

Products & pages Show more

- App Engine Product: Managed app platform
- Cloud Run Product: Fully managed application platform
- Load balancing Product page: Network Services

Documentation & tutorials Show more

- App Engine Application Platform Documentation: Google App Engine lets app developers build scalable web and mobile back...
- Download and install Google Cloud SDK | App Engine Documentation: Select your App Engine environment and language for instructions about...
- Deploy apps on a GKE cluster using Gemini Code Assist and the Gemini CLI Tutorial

Marketplace Show more

- App Engine Marketplace: A platform to build web and mobile apps that scale automatically
- F5 Per-App-VE Advanced WAF with LTM, IPL, TC (PAYG, 200Mbps) Marketplace: Traffic management and robust security on a per-app basis.
- NGINX Plus with NGINX App Protect - Premium (RHEL 7) Marketplace: NGINX Plus with NGINX App Protect - Premium (RHEL 7)

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console.cloud.google.com/appengine/start?project=shining-reality-476610-v3

Free trial status: \$26,614.88 credit and 91 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use.

Dismiss Activate

Google Cloud AppEngineMohammedMeraj app Search

App Engine / Dashboard / Start

Dashboard App Engine

- Services
- Versions
- Instances
- Task queues
- Cron jobs
- Firewall rules
- Quotas
- Memcache
- Search
- Settings

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

Create Application

Cloud Run offers the most modern fully managed application hosting experience with lower minimum billable times and support for GPUs on demand for your AI/ML workloads. Deploy code written in any programming language supported by App Engine on Cloud Run.

Try Cloud Run

Release Notes

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console.cloud.google.com/appengine/start/create?project=shining-reality-476610-v3

Free trial status: \$26,614.88 credit and 91 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use.

Google Cloud AppEngineMohammedMeraj app Search Dismiss Activate

-> App Engine / Dashboard / Start / Create

Dashboard Services Versions Instances Task queues Cron jobs Firewall rules Quotas Memcache Search Settings

Create app

Configure application — Get started

Region

Select a region for your App Engine application. Please remember, once selected the region is permanently tied to the project.

Cloud Run is available in all the Google Cloud supported regions.

Try Cloud Run

Keyboard shortcuts Map data ©2023 Terms

Select a region * us-central

Identity and API access

Select a service account

If no service account is selected the default App Engine service account will be used.

Release Notes Next

Start your Free Trial with \$300 in credit. Don't worry—you won't be charged if you run out of credits. Learn more

Google Cloud AppEngineMohammedMeraj app Search Dismiss Start free

-> App Engine / Dashboard / Start / Get started

Dashboard Services Versions Instances Task queues Cron jobs Firewall rules Quotas Memcache Search Settings

Get started

Your App Engine application has been created. Choose the deployment method that works best for you.

Resources

Language Python Environment Standard

Read App Engine Python Standard Environment Documentation. Visit Github for Python Standard Environment code samples.

Deploy with Google Cloud SDK

Download the Cloud SDK

Initialize your SDK

```
$ gcloud init
```

Deploy to App Engine

```
$ gcloud app deploy
```

Build web applications in any language, any framework supported by App Engine on Cloud Run. Cloud Run supports a variety of workloads from simple functions to powerful services and jobs.

Try Cloud Run

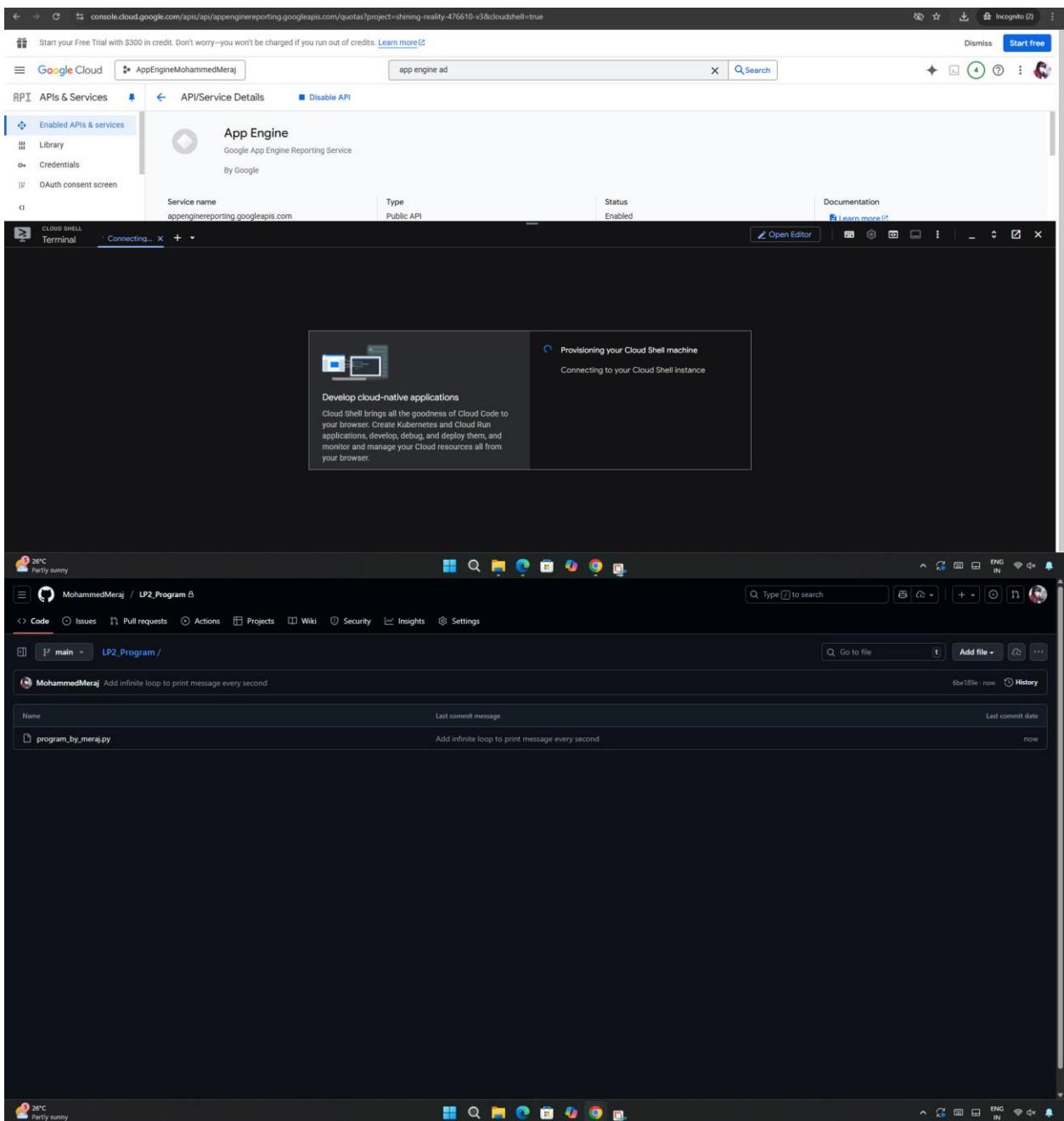
Heavy rain Today ENG IN

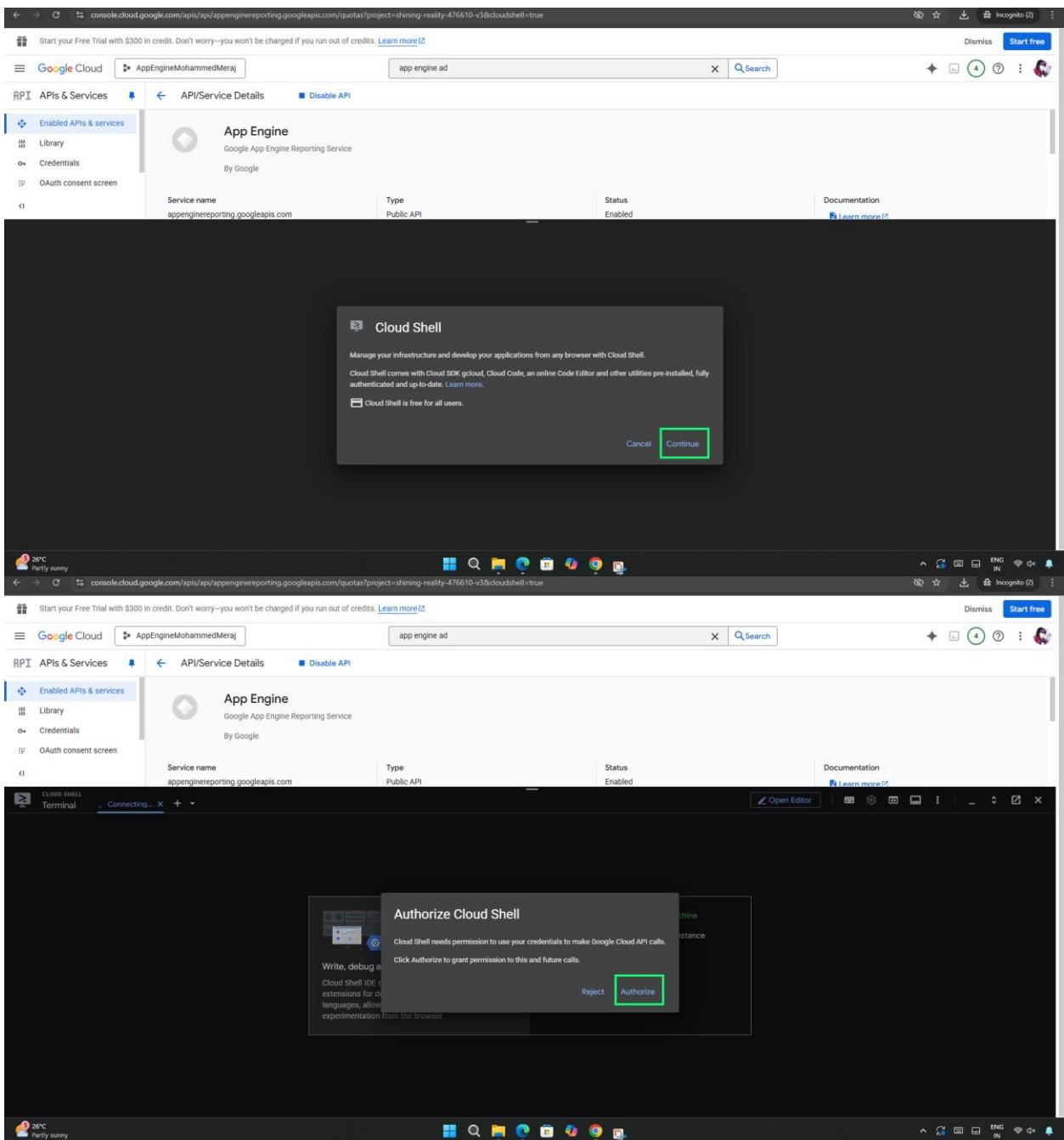
The screenshot shows the Google Cloud Console interface. A search bar at the top right contains the query "app engine ad". Below the search bar, the results are displayed under the heading "Top results". The first result, "App Engine Admin API", is highlighted with a green border. This entry includes a brief description ("Provisions and manages developers' App Engine applications."), documentation links ("Mapping custom domains - App Engine", "Cloud Endpoints", "Roles that grant access to App Engine", "Mapping custom domains - App Engine"), and a link to "Documentation". Other results listed include "App Engine Application Platform", "App Engine Admin API", and "Cloud Datastore". A note at the bottom states "Showing resource results for <code>AppEngineMohammedMeraj</code> only".

Below the search results, there is a section titled "Build web applications in any language, any framework supported by App Engine on Cloud Run. Cloud Run supports a variety of workloads from simple functions to powerful services and jobs." It features a "Try Cloud Run" button and a weather forecast for "Rain showers Tomorrow".

The screenshot shows the Google Cloud Marketplace product page for the "App Engine Admin API". The page title is "App Engine Admin API" and it is described as a "Google Enterprise API". A sub-section "Additional details" provides information about the service, including its type ("SaaS & APIs"), last update date ("7/22/22"), category ("Compute, Google Enterprise APIs"), and service name ("appengine.googleapis.com"). The "Enable" button is highlighted with a green border. Navigation tabs at the top include "Overview", "Documentation", and "Related Products". A "Tutorials and documentation" section with a "Learn more" link is also present.

The screenshot shows the Google Cloud Platform interface for managing APIs. The top navigation bar includes links for 'console.cloud.google.com/apis/api/appengine.googleapis.com/metrics?project=shining-reality-476610-v3&cloudshell=true' and 'Dismiss Start free'. The search bar contains 'app engine ad'. The main content area is titled 'API/Service Details' for the 'App Engine Admin API'. On the left, a sidebar lists 'Enabled APIs & services' (Library, Credentials, OAuth consent screen, Page usage agreements), 'Metrics' (selected), 'Quotas & System Limits', and 'Credentials'. The central panel displays the 'App Engine Admin API' details: Service name 'appengine.googleapis.com', Type 'Public API', Status 'Enabled', Documentation link, and an 'Explore' button ('Try in API Explorer'). Below this, a metrics section for 'Traffic by response code' shows a graph with no data available for the selected time frame (Oct 1 to Oct 29). The bottom of the screen shows the Windows taskbar with various pinned icons.





The screenshot shows the Google Cloud Platform interface for managing APIs and services. The main navigation bar includes 'Google Cloud' and 'AppEngineMohammedMeraj'. A search bar at the top right contains the text 'app engine ad'. Below the navigation, a sidebar titled 'Enabled APIs & services' lists 'Library', 'Credentials', and 'OAuth consent screen'. The main content area displays the 'App Engine' service details. It shows the service name as 'appenginerreporting.googleapis.com', type as 'Public API', and status as 'Enabled'. A 'Documentation' section with a 'Learn more' link is also present. At the bottom, a terminal window titled 'CLOUD SHELL Terminal (shining-reality-476610-v3) x +' shows a command prompt with a green border around the output area. The output includes instructions for running commands as root and a welcome message for the Gemini CLI.

To run a command as administrator (user "root"), use "sudo command".
See "man sudo_root" for details.
Welcome to Cloud Shell! Type "help" to get started, or type "gemini" to try prompting with Gemini CLI.
Your Cloud Platform project in this session is set to shining-reality-476610-v3.
You can change project (or session) by running "gcloud config set project PROJECT" or a different project.
mohammedmeraj@shining-reality-476610-v3:~\$ []

The screenshot also shows a separate browser window for GitHub, titled 'New repository'. The 'General' tab is selected, showing fields for 'Repository name' (set to 'LP2_Program'), 'Owner' (set to 'MohammedMeraj'), and a 'Description' field. The 'Configuration' tab includes options for 'Choose visibility' (set to 'Private'), 'Add README' (disabled), 'Add .gitignore' (set to 'No .gitignore'), and 'Add license' (set to 'No license'). The 'Jumpstart your project with Copilot (optional)' section is also visible.

The screenshot shows a GitHub repository page for 'LP2_Program'. The top section provides quick setup instructions:

- Start coding with Codespaces**: Add a README file and start coding in a secure, configurable, and dedicated development environment. A 'Create a codespace' button is available.
- Add collaborators to this repository**: Search for people using their GitHub username or email address. A 'Invite collaborators' button is available.

Below these are three command-line setup options:

- Set up in Desktop** or **HTTPS** or **SSH**: URL: https://github.com/MohammedMeraj/LP2_Program.git. Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [gitignore](#).
- ...or create a new repository on the command line**:

```
echo "# LP2_Program" >> README.md
git init
git add README.md
git commit -m "First commit"
git branch -M main
git remote add origin https://github.com/MohammedMeraj/LP2_Program.git
git push -u origin main
```
- ...or push an existing repository from the command line**:

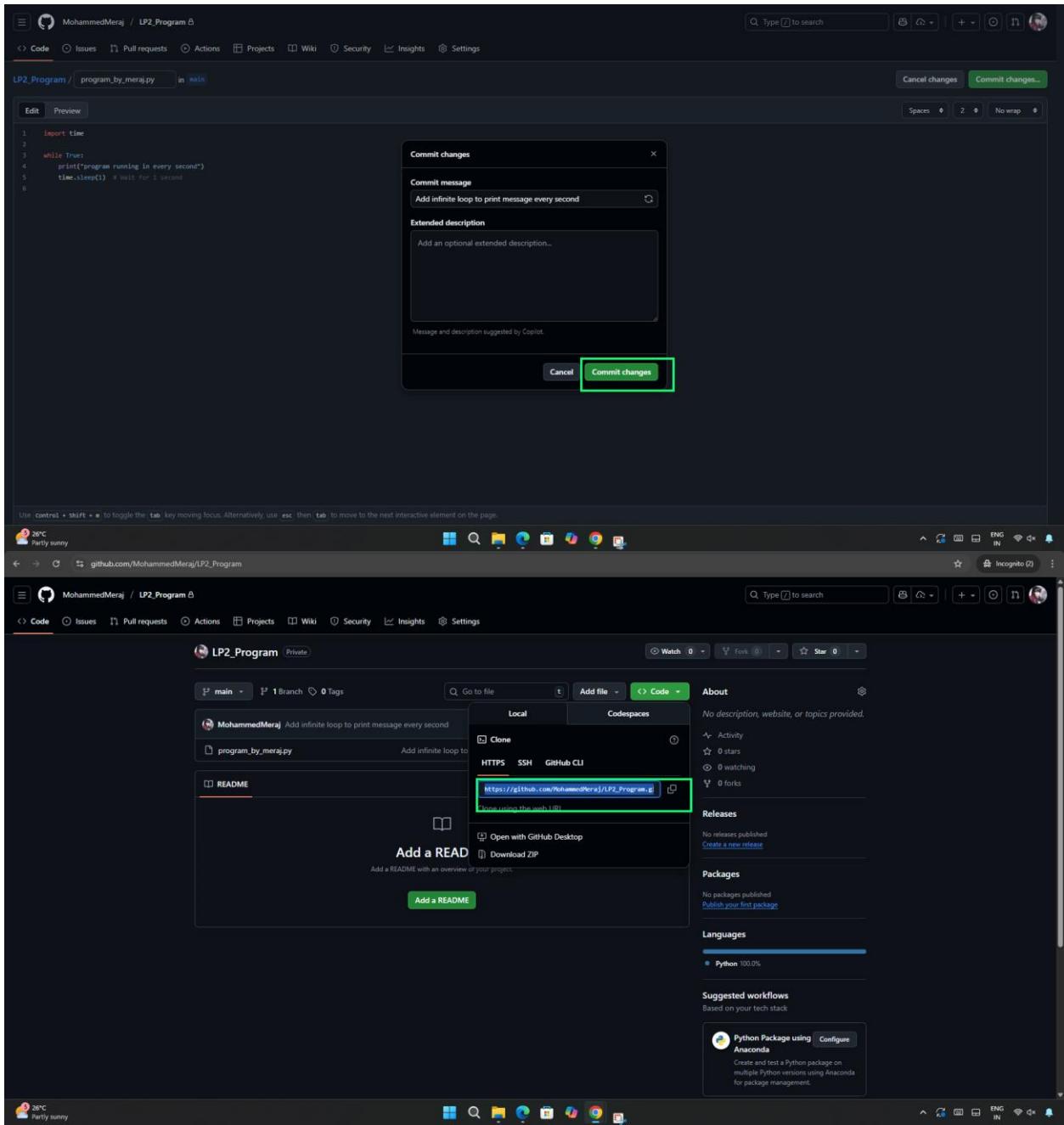
```
git remote add origin https://github.com/MohammedMeraj/LP2_Program.git
git branch -M main
git push -u origin main
```

A 'ProTip!' link is present: Use the URL for this page when adding GitHub as a remote.

The bottom section shows the code editor for 'program_by_meraj.py' in the 'main' branch:

```
import time
while True:
    print("Program running in every second")
    time.sleep(1) # wait for 1 second
```

The code editor interface includes tabs for 'Edit' and 'Preview', a search bar, and buttons for 'Commit changes...' and 'Cancel changes'. The code area has a green border around the first two lines.



The image shows two screenshots of a GitHub repository interface. The top screenshot displays a code editor with a Python script named `program_by_meraj.py`. The script contains the following code:`1 import time
2
3 while True:
4 print("Program running in every second")
5 time.sleep() # wait for 1 second
6`

A modal window titled "Commit changes" is open, prompting for a commit message. The message field contains "Add infinite loop to print message every second". Below it is an "Extended description" field with the placeholder "Add an optional extended description...". At the bottom of the modal are "Cancel" and "Commit changes" buttons, with "Commit changes" being highlighted by a green box.

The bottom screenshot shows the main repository page for "LP2_Program". It includes a "Code" tab, a "main" branch indicator, and a "1 Branch" status. The "About" section notes "No description, website, or topics provided." and lists "Activity", "0 stars", "0 watching", and "0 forks". The "Readme" section features a "README" file with the content "Add infinite loop to print message every second". A "Clone" button is available via "HTTPS", "SSH", or "GitHub CLI". The URL `https://github.com/MohammedMeraj/LP2_Program.git` is highlighted with a green box. Other sections include "Releases" (no releases), "Packages" (no packages), "Languages" (Python 100.0%), and "Suggested workflows" (Python Package using Anaconda).

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Dismiss Start free

Google Cloud AppEngineMohammedMeraj app engine ad Search

APIs & Services API/Service Details Disable API

Enabled APIs & services

App Engine
Google App Engine Reporting Service
By Google

Service name: appenginereporting.googleapis.com Type: Public API Status: Enabled Documentation

CLOUD SHELL Terminal (shining-reality-476610-v3) + -

```

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. Learn more

monomain751@cloudshell: ~ (shining-reality-476610-v3)$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': MohammedMeraj
Password for 'https://MohammedMeraj@github.com':
remote: Invalid username or password.
remote: fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
monomain751@cloudshell: ~ (shining-reality-476610-v3)$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': MohammedMeraj
Password for 'https://MohammedMeraj@github.com':
remote: Invalid username or password.
remote: fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
monomain751@cloudshell: ~ (shining-reality-476610-v3)$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
remote: Counting objects: 1000 (3/3), done.
remote: Compressing objects: 1000 (2/2), done.
remote: Writing objects: 1000 (1/1), done.
remote: Total 1000 (delta 0), pack-reused 0 (from 0)
Receiving objects: 1000 (3/3), done.
monomain751@cloudshell: ~ (shining-reality-476610-v3)$ ls
LP2_Program
monomain751@cloudshell: ~ (shining-reality-476610-v3)$ cd LP2_Program
monomain751@cloudshell: ~/LP2_Program (shining-reality-476610-v3)$ ls
program_by_root.py
monomain751@cloudshell: ~/LP2_Program (shining-reality-476610-v3)$ python program_by_meraj.py
program running in every second

```

28°C Mostly cloudy

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Dismiss Start free

Google Cloud AppEngineMohammedMeraj app engine ad Search

APIs & Services API/Service Details Disable API

Enabled APIs & services

App Engine
Google App Engine Reporting Service
By Google

Service name: appenginereporting.googleapis.com Type: Public API Status: Enabled Documentation

CLOUD SHELL Terminal (shining-reality-476610-v3) + -

```

Gemini CLI is available in Cloud Shell terminal! Type gemini to try it. Learn more

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

Welcome to Cloud Shell! Type "help" to get started, or type "gemini" to try prompting with Gemini CLI.
Your Cloud Platform project in this session is set to shining-reality-476610-v3.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
monomain751@cloudshell: ~ (shining-reality-476610-v3)$ git clone https://github.com/MohammedMeraj/LP2_Program.git

```

26°C Partly sunny

The screenshot shows a browser window with the Google Cloud logo at the top. The URL bar contains "Google Cloud" and "AppEngineMohammedMeraj". A search bar with "app engine ad" is also present. The main content area displays the "APIs & Services" dashboard under the "Enabled APIs & services" section, specifically for the "App Engine" service.

Cloud Shell Terminal:

```
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohmmad7517@gmail.com
Password for 'https://mohmmad7517@gmail.com@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
shining-reality-476610-v3$ ls
LP2_Program README-cloudshell.txt
shining-reality-476610-v3$
```

The terminal output shows multiple failed attempts to clone the repository using password authentication, which is explicitly stated as unsupported by GitHub. The final command listed is "ls" showing the directory contents.

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Dismiss Start free

Google Cloud App EngineMohammedMeraj API/Service Details Search

RPI APIs & Services Enabled APIs & services

App Engine
Google App Engine Reporting Service By Google

Service name appenginereporting.googleapis.com Type Public API Status Enabled Documentation

CLOUD SHELL Terminal shining-reality-476610-v3 x +

Gemini CLI is available in Cloud Shell terminal! Type `gemini` to try it. [Learn more](#)

```
Username for 'https://github.com': mohammadm7517@gmail.com
Password for 'https://mohammadm7517@gmail.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
monomoin751@cloudshell: ~ (shining-reality-476610-v3)$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohammadm7517@gmail.com
Password for 'https://mohammadm7517@gmail.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
monomoin751@cloudshell: ~ (shining-reality-476610-v3)$ cd LP2_Program
Username for 'https://github.com': mohammadm7517@gmail.com
Password for 'https://mohammadm7517@gmail.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
monomoin751@cloudshell: ~ (shining-reality-476610-v3)$ git clone https://github.com/MohammedMeraj/LP2_Program.git
Cloning into 'LP2_Program'...
Username for 'https://github.com': mohammadm7517@gmail.com
Password for 'https://mohammadm7517@gmail.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
monomoin751@cloudshell: ~ (shining-reality-476610-v3)$ ls
LP2_Program README-cloudshell.txt
monomoin751@cloudshell: ~ (shining-reality-476610-v3)$ cd LP2_Program
monomoin751@cloudshell: ~/LP2_Program (shining-reality-476610-v3)$ ls
program by meraj.py
monomoin751@cloudshell: ~/LP2_Program (shining-reality-476610-v3)$
```

Upcoming Events

Dismiss Start free

Google Cloud App EngineMohammedMeraj API/Service Details Search

RPI APIs & Services Enabled APIs & services

App Engine
Google App Engine Reporting Service By Google

Service name appenginereporting.googleapis.com Type Public API Status Enabled Documentation

CLOUD SHELL Terminal shining-reality-476610-v3 x +

Gemini CLI is available in Cloud Shell terminal! Type `gemini` to try it. [Learn more](#)

```
Username for 'https://github.com': mohammadm7517@gmail.com
Password for 'https://mohammadm7517@gmail.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
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Cloning into 'LP2_Program'...
Username for 'https://github.com': mohammadm7517@gmail.com
Password for 'https://mohammadm7517@gmail.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
monomoin751@cloudshell: ~ (shining-reality-476610-v3)$ cd LP2_Program
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Cloning into 'LP2_Program'...
Username for 'https://github.com': mohammadm7517@gmail.com
Password for 'https://mohammadm7517@gmail.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations.
fatal: Authentication failed for 'https://github.com/MohammedMeraj/LP2_Program.git'
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LP2_Program README-cloudshell.txt
monomoin751@cloudshell: ~ (shining-reality-476610-v3)$ cd LP2_Program
monomoin751@cloudshell: ~/LP2_Program (shining-reality-476610-v3)$ ls
program by meraj.py
monomoin751@cloudshell: ~/LP2_Program (shining-reality-476610-v3)$
```

Upcoming Events

CC