

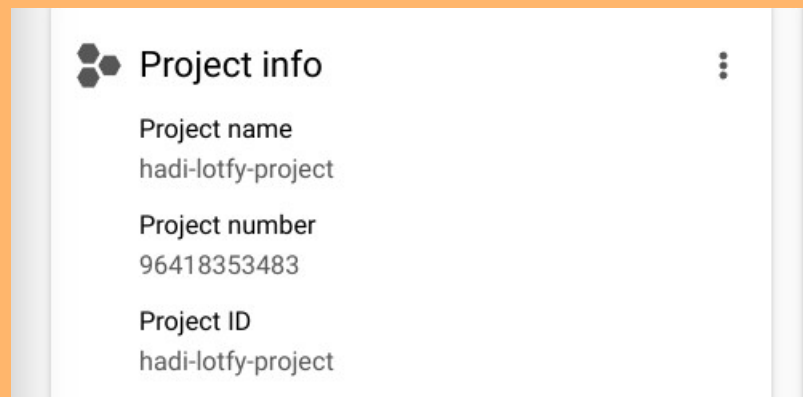
Lab1

1. Discover the gcp console
2. Set your account
3. Add your billing
4. Create your project, list your project details
5. Set budget and Alerts (b: 20\$/ a: 17,5\$, 10%, 5\$)
6. Add your Friend as viewer, What is the role type?
7. Restrict his viewer to view the VPC networks only.
8. Create SA with owner permission.
9. Create a python app to get the projectId (API).
10. List the projects using SDK.
11. Use the cloud shell to auth the SA and set the current project as your default project.

1. Discover the gcp console.
2. Set your account

Name: Hadi Lotfy
Host: Andrew Anter
Project Name: hadi-lotfy-project
Project Number: 96418353483
Project ID: hadi-lotfy-project

3. Add your billing
4. Create your project,list your project details.
5. Set budget and Alerts



The screenshot shows the 'Project info' section of the Google Cloud console. It displays the following details:

- Project name:** hadi-lotfy-project
- Project number:** 96418353483
- Project ID:** hadi-lotfy-project



Project "hadi-lotfy-project" is linked to billing account "My Billing Account". You don't have permission to access this account.

Billing account ID

015C56-09ADAD-77D8AC

Billing management for "hadi-lotfy-project"

Project name	Project ID	Actions ?
hadi-lotfy-project	hadi-lotfy-project	⋮

6. Add your Friend as viewer, What is the role type? >>>> **Basic Role**

Permissions for project "hadi-lotfy-project"

These permissions affect this project and all of its resources. [Learn more](#)

☐ Include Google-provided role grants ?

VIEW BY PRINCIPALS VIEW BY ROLES

Filter Enter property name or value ?

<input type="checkbox"/> Type	Principal ↑	Name	Role	Security insights ?	Inheritance
<input type="checkbox"/>	ahmed.emad.mohamed.abd@gmail.com		Viewer		
<input type="checkbox"/>	andrew.anter@gmail.com		Owner		
<input type="checkbox"/>	hadi.al.atally@gmail.com	Hadi Al-Atally	Owner		

7. Restrict his viewer role to view the VPC network only.

Permissions for project "hadi-lotfy-project"

These permissions affect this project and all of its resources. [Learn more](#)

☐ Include Google-provided role grants ?

VIEW BY PRINCIPALS VIEW BY ROLES

Filter Enter property name or value ?

<input type="checkbox"/> Type	Principal ↑	Name	Role	Security insights ?	Inheritance
<input type="checkbox"/>	ahmed.emad.mohamed.abd@gmail.com		Compute Network Viewer		
<input type="checkbox"/>	andrew.anter@gmail.com		Owner		
<input type="checkbox"/>	hadi.al.atally@gmail.com	Hadi Al-Atally	Owner		

Edit principal

8. Create SA with owner permission

Permissions for project "hadi-lotfy-project"

These permissions affect this project and all of its resources. [Learn more](#)

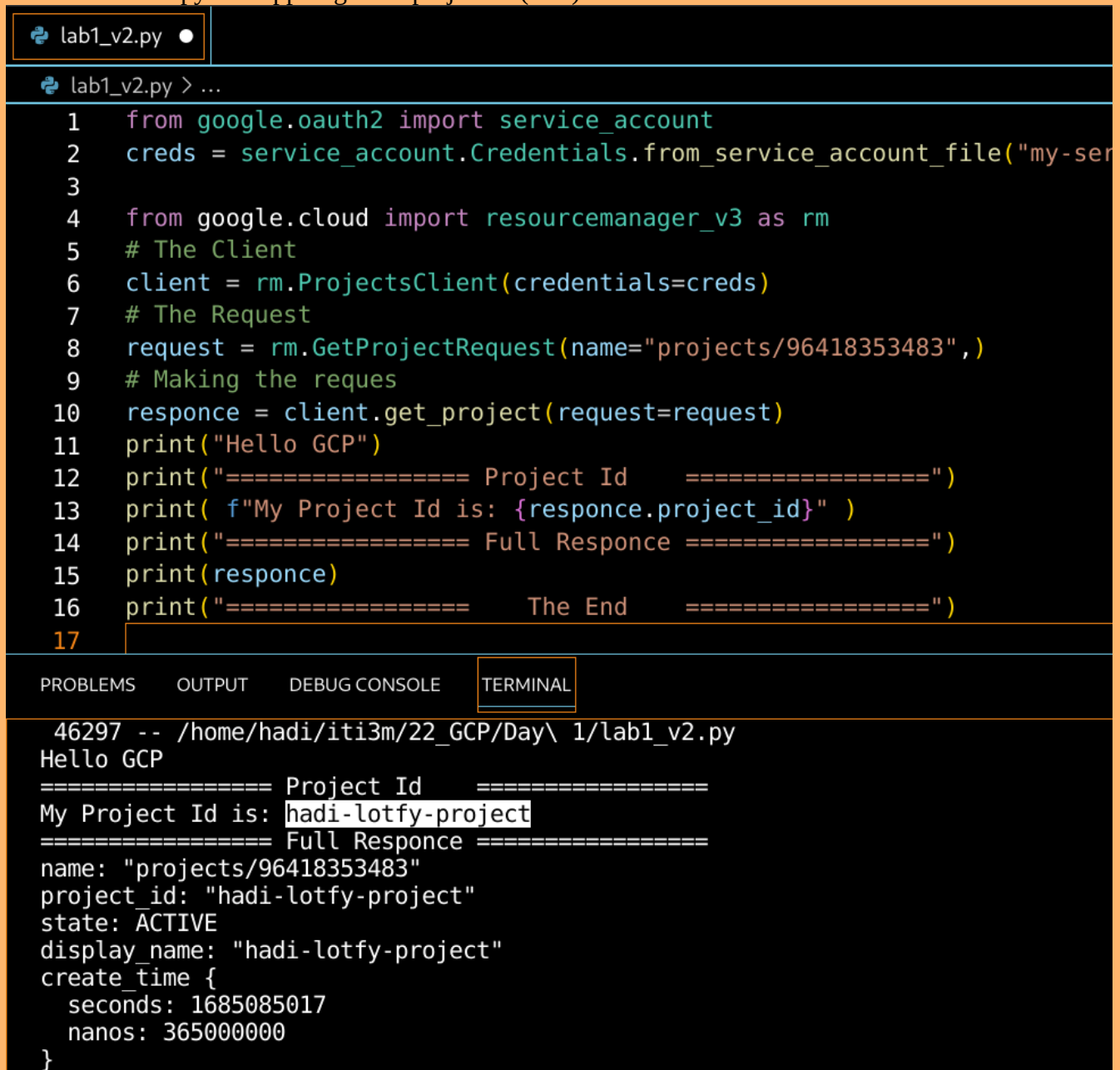
☐ Include Google-provided role grants ?

VIEW BY PRINCIPALS VIEW BY ROLES

Filter Enter property name or value ?

<input type="checkbox"/> Type	Principal ↑	Name	Role	Security insights ?	Inheritance
<input type="checkbox"/>	ahmed.emad.mohamed.abd@gmail.com		Compute Network Viewer		
<input type="checkbox"/>	andrew.anter@gmail.com		Owner		
<input type="checkbox"/>	hadi.al.atally@gmail.com	Hadi Al-Atally	Owner		
<input type="checkbox"/>	lab1-sa@hadi-lotfy-project.iam.gserviceaccount.com	lab1-sa	Owner		

9. Create a python app to get the project id (API)



The image shows a VS Code editor with a file named `lab1_v2.py`. The script uses the Google Cloud SDK to retrieve project information. The terminal output shows the script being executed, printing "Hello GCP" and the project details for "hadi-lotfy-project".

```

1  from google.oauth2 import service_account
2  creds = service_account.Credentials.from_service_account_file("my-ser
3
4  from google.cloud import resourcemanager_v3 as rm
5  # The Client
6  client = rm.ProjectsClient(credentials=creds)
7  # The Request
8  request = rm.GetProjectRequest(name="projects/96418353483",)
9  # Making the reqes
10 response = client.get_project(request=request)
11 print("Hello GCP")
12 print("==== Project Id      =====")
13 print( f"My Project Id is: {response.project_id}" )
14 print("==== Full Response =====")
15 print(response)
16 print("==== The End      =====")
17

```

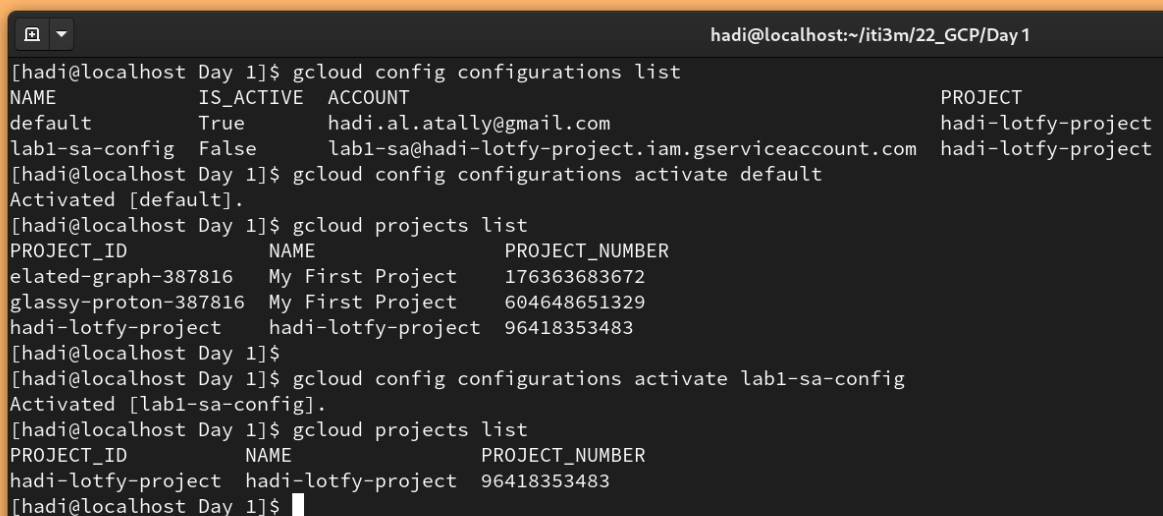
PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```

46297 -- /home/hadi/iti3m/22_GCP/Day\ 1/lab1_v2.py
Hello GCP
==== Project Id      =====
My Project Id is: hadi-lotfy-project
==== Full Response =====
name: "projects/96418353483"
project_id: "hadi-lotfy-project"
state: ACTIVE
display_name: "hadi-lotfy-project"
create_time {
  seconds: 1685085017
  nanos: 365000000
}

```

10. List the Projects using SDK



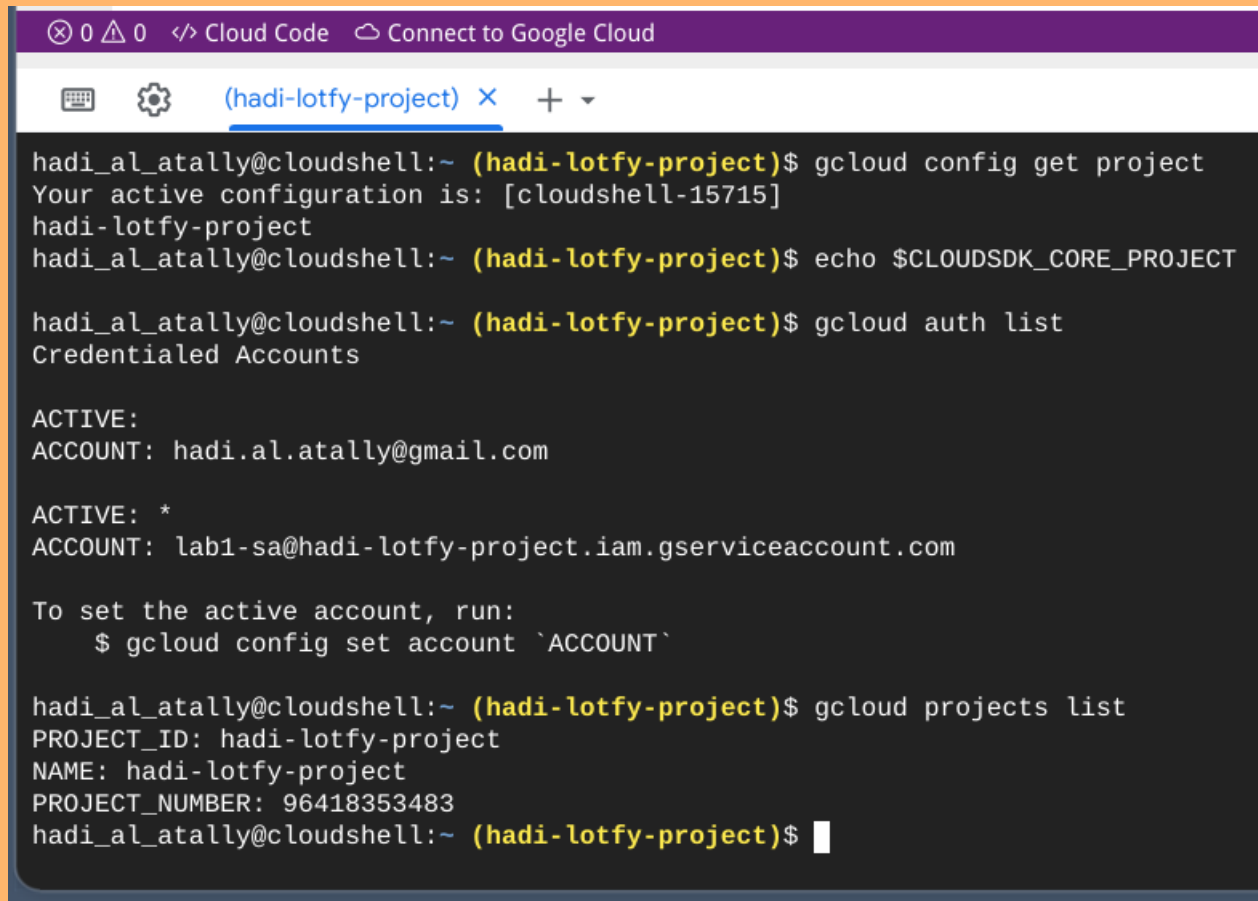
The image shows a terminal window with the following commands and output:

```

hadi@localhost:~/iti3m/22_GCP/Day 1
[hadi@localhost Day 1]$ gcloud config configurations list
NAME          IS_ACTIVE  ACCOUNT                                     PROJECT
default       True       hadi.al.atally@gmail.com                  hadi-lotfy-project
lab1-sa-config False      lab1-sa@hadi-lotfy-project.iam.gserviceaccount.com hadi-lotfy-project
[hadi@localhost Day 1]$ gcloud config configurations activate default
Activated [default].
[hadi@localhost Day 1]$ gcloud projects list
PROJECT_ID    NAME                PROJECT_NUMBER
elated-graph-387816  My First Project    176363683672
glassy-proton-387816  My First Project    604648651329
hadi-lotfy-project  hadi-lotfy-project  96418353483
[hadi@localhost Day 1]$
[hadi@localhost Day 1]$ gcloud config configurations activate lab1-sa-config
Activated [lab1-sa-config].
[hadi@localhost Day 1]$ gcloud projects list
PROJECT_ID    NAME                PROJECT_NUMBER
hadi-lotfy-project  hadi-lotfy-project  96418353483
[hadi@localhost Day 1]$

```

11. Use the cloud shell to auth the SA and set the current project as your default project.



```
hadi_al_atally@cloudshell:~ (hadi-lotfy-project)$ gcloud config get project
Your active configuration is: [cloudshell-15715]
hadi-lotfy-project
hadi_al_atally@cloudshell:~ (hadi-lotfy-project)$ echo $CLOUDSDK_CORE_PROJECT

hadi_al_atally@cloudshell:~ (hadi-lotfy-project)$ gcloud auth list
Credentialed Accounts

ACTIVE:
ACCOUNT: hadi.al.atally@gmail.com

ACTIVE: *
ACCOUNT: lab1-sa@hadi-lotfy-project.iam.gserviceaccount.com

To set the active account, run:
  $ gcloud config set account `ACCOUNT`

hadi_al_atally@cloudshell:~ (hadi-lotfy-project)$ gcloud projects list
PROJECT_ID: hadi-lotfy-project
NAME: hadi-lotfy-project
PROJECT_NUMBER: 96418353483
hadi_al_atally@cloudshell:~ (hadi-lotfy-project)$
```