GOOGLE SHEET

1. Prerequisites

Install the required packages:

pip install gspread oauth2client

- 2. Setup Google Cloud Project & Credentials
 - 1.Go to Google Cloud Console.
 - 2.Create a new project (name it anything you want).
 - 3. Enable these two APIs:
 - Google Sheets API
 - Google Drive API
 - 4.Go to APIs & Services → Credentials.
 - 5.Click "Create Credentials" → "Service Account".
 - 6.Create a JSON key. Download and rename it as:
 client_secret.json
 (save it in the same directory as your script)

```
import gspread
from oauth2client.service account import
ServiceAccountCredentials
# Define the scope
SCOPES = [
    'https://www.googleapis.com/auth/spreadsheets',
    'https://www.googleapis.com/auth/drive'
]
# Load credentials from JSON keyfile
credentials =
ServiceAccountCredentials.from json keyfile name(
    'client secret.json',
    SCOPES
)
# Authorize client
client = gspread.authorize(credentials)
# Replace with your actual Google Sheet ID (the long
string in the URL)
SAMPLE SPREADSHEET ID = 'YOUR SPREADSHEET ID HERE'
# Open the spreadsheet
google sheet =
client.open by key(SAMPLE SPREADSHEET ID)
# Select the first sheet
sheet = google sheet.get worksheet(0)
# Sample data to append (list format)
data to append = [1, 2, 3, 4, 5, 6]
# Append the row to the sheet
sheet.append row(data to append)
```

print("V Data appended successfully!")

Tips

 Spreadsheet ID: It's the long string between /d/ and /edit in your Google Sheet URL.
 Example:

https://docs.google.com/spreadsheets/d/1w8jLZabcdefg12345678XYZ/edit#gid=0

• **Permissions**: Make sure your service account email (from the JSON file) is added as an **editor** to your Google Sheet (share it via the "Share" button in the sheet UI).

☆ Common Errors & Fixes

Error	Fix
gspread.exceptions.APIError: 403	Your Google Sheet isn't shared with the service account email.
<pre>FileNotFoundError: client_secret.json</pre>	Make sure the JSON file exists and is in the script folder.

AttributeError: module 'oauth2client' has no attribute 'service_account'

You may have an outdated version of oauth2client. Reinstall it.