

**Integrating SendGrid Service**  
**SendGrid Integration With Python Code**

## Creating an API Key

app.sendgrid.com/settings/api\_keys



Inbox (1,070) - jaya... YouTube Maps Gmail News Translate

Finish your account setup in order to select a paid plan and unlock the full potential of Twilio SendGrid. [Let's do it!](#)

JAYANTHIKA JAYA

### API Keys

Create API Key

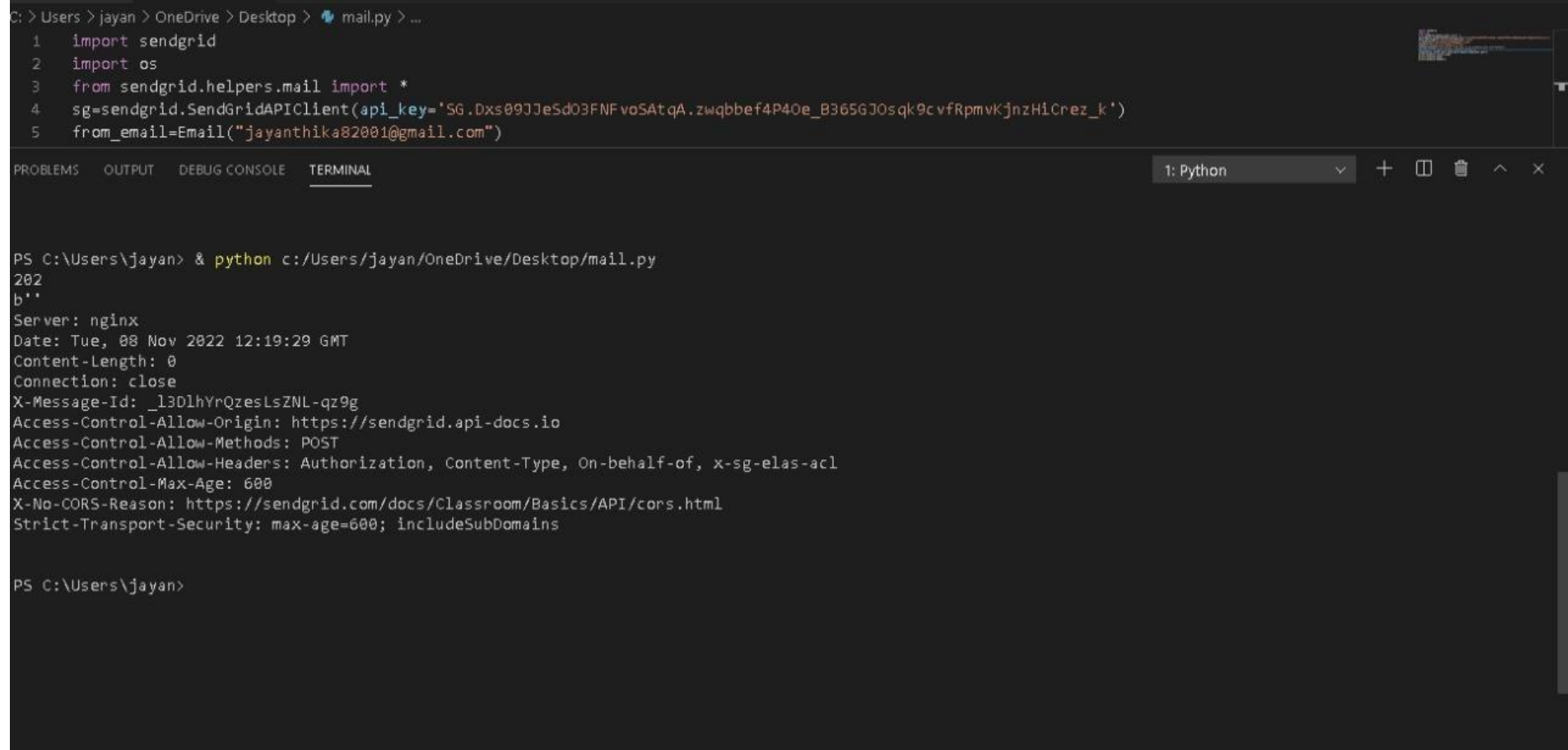
NAME	API KEY	ACTION
<b>mail</b> API Key ID: Dxs09JJJeSdO3FNFvoSA1qA	 .....	 ▾

Creating a Virtual Environment “EmailTest” and creating mail.py file with the following code inside the virtual environment



```
1 import sendgrid
2 import os
3 from sendgrid.helpers.mail import *
4 sg=sendgrid.SendGridAPIClient(api_key='SG.Dxs09JJJeSd03FNFvoSatqA.zwqbbef4P40e_B365GGJ0sqk9cvfRpmvKjnzHiCrez_k')
5 from_email=Email("jayanthika82001@gmail.com")
6 to_email=To("jayanthikaj19it040@gmail.com")
7 subject="Sending with Sendgrid is Fun"
8 content=Content("text/plain","and easy to do anywhere,even with Python")
9 mail=Mail([from_email,to_email,subject,content])
10 response=sg.mail.send.post(request_body=mail.get())
11 print(response.status_code)
12 print(response.body)
13 print(response.headers)
```

## Running the python file through the terminal



The screenshot shows a Visual Studio Code editor window with a Python file named `mail.py` open. The file contains the following code:

```
1 import sendgrid
2 import os
3 from sendgrid.helpers.mail import *
4 sg=sendgrid.SendGridAPIClient(api_key='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')
5 from_email=Email("jayanthika82001@gmail.com")
```

Below the editor, the **TERMINAL** tab is active, showing the command to run the script and its output:

```
PS C:\Users\jayan> & python c:/Users/jayan/OneDrive/Desktop/mail.py
202
b''
Server: nginx
Date: Tue, 08 Nov 2022 12:19:29 GMT
Content-Length: 0
Connection: close
X-Message-Id: _l3DlhYrQzesLsZNL-qz9g
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Methods: POST
Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
Access-Control-Max-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains

PS C:\Users\jayan>
```

## Test mail received via SendGrid

The screenshot shows a Gmail interface in a web browser. The address bar displays the URL: `mail.google.com/mail/u/0/#inbox/FMfcgzGqRQJkQQfpPhJGHWhgtgPPm.cVbg`. The browser's taskbar at the top includes icons for Gmail, YouTube, Maps, News, and Translate.

The Gmail interface features a left sidebar with the 'Compose' button and a list of folders: 'Inbox' (1,331), 'Starred', 'Snoozed', 'Sent', 'Drafts' (11), and 'More'. Below these are 'Labels' and a plus sign for additional labels.

The main content area shows a search bar and a list of emails. The first email is from 'jayanthika82001@gmail.com' with the subject 'and easy to do anywhere,even with Python', received at 5:47 PM (16 minutes ago). The second email is also from 'jayanthika82001@gmail.com', but it is marked as 'via sendgrid.net' and received at 5:49 PM (14 minutes ago). The body of this email contains the text 'and easy to do anywhere,even with Python'. Below the email body are buttons for 'Reply' and 'Forward'.