

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

|              |                                      |
|--------------|--------------------------------------|
| Date         | 08 November, 2022                    |
| Team ID      | PNT2022TMID27137                     |
| Project Name | Personal Expense Tracker Application |

## 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!](#)

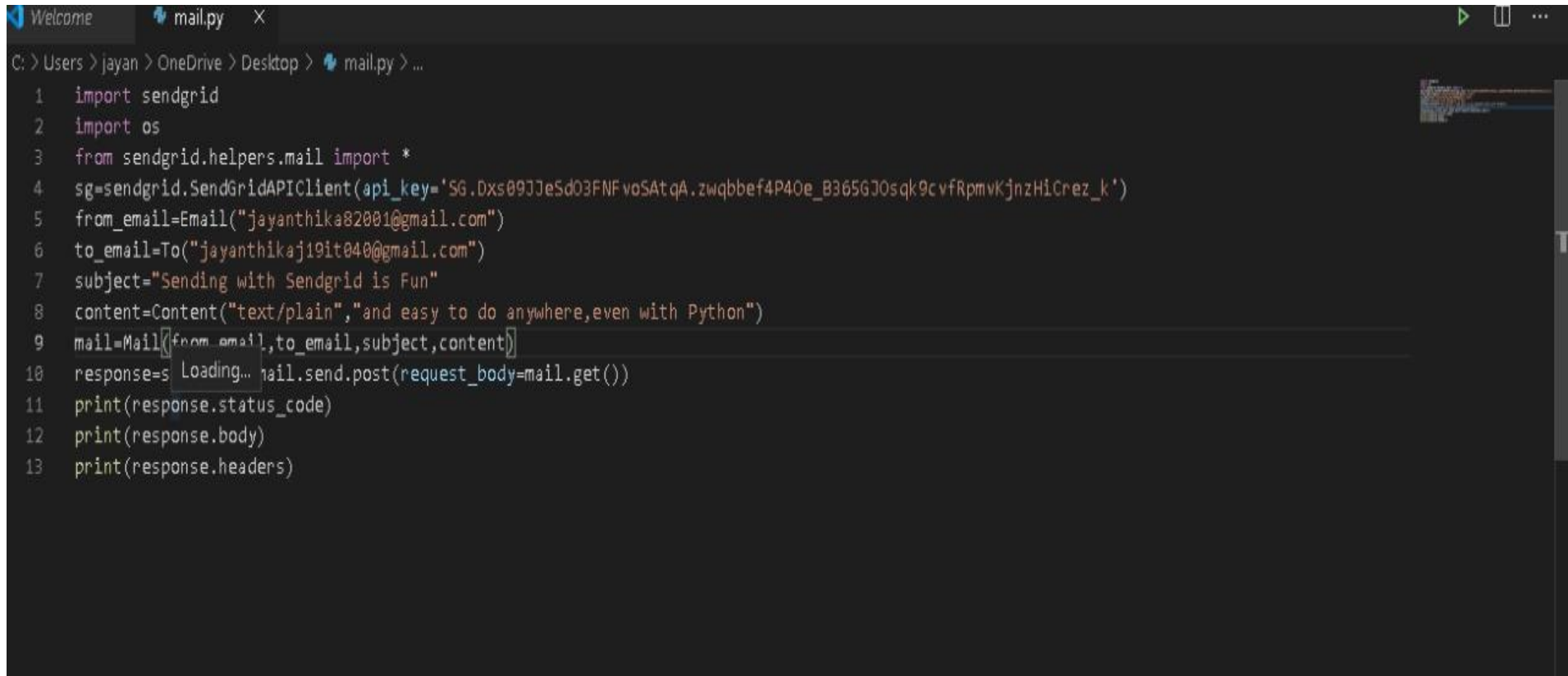
JAYANTHIKA JAYA

### API Keys

Create API Key

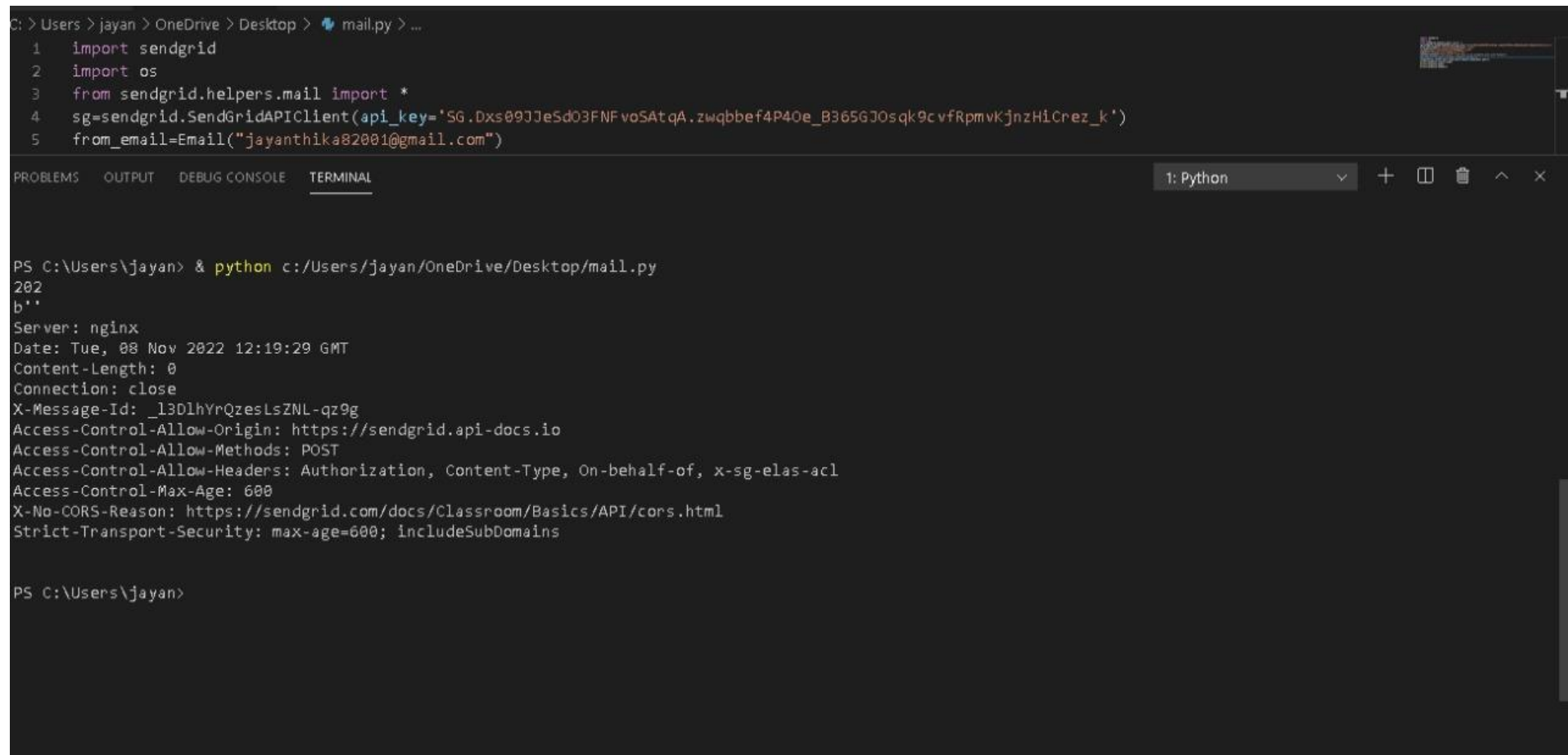
| NAME   | API KEY | ACTION  |
|--|---------|---|
| <b>mail</b><br>API Key ID: Dxs09JJJeSd03FNFvoSA1qA | .....   |  ▾ |

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_B365GJ0sqk9cvfRpmvKjnzHiCrez_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 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='SG.Dxs09JJ3eSd03FNfvoSAAtqA.zwqbbef4P40e_B365GJOsqk9cVfRpmvKjnzHiCnez_k')
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-elias-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

