

Integrating SendGrid Service
SendGrid Integration With Python Code

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|--------------|--------------------------|
| Date | 08 November, 2022 |
| Team ID | PNT2022TMID00855 |
| Project Name | Plasma Donor Application |

Creating an API Key

The screenshot shows a web browser window with the SendGrid logo in the top left corner. The address bar displays the URL `app.sendgrid.com/settings/api_keys`. A light blue banner at the top of the page contains the text: "Ready to send your first email? Follow our guides for Email API or Marketing Campaigns. [Let's do it!](#)".

The main content area is titled "API Keys" and features a blue "Create API Key" button in the top right corner. On the left, a sidebar menu lists various navigation options: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, and Settings. The "Email API" option is currently selected.

The central part of the page displays a table with the following columns: NAME, API KEY, and ACTION. There is one entry in the table:

| NAME | API KEY | ACTION |
|---|---------|--------|
| mail 1 API Key ID: CFGhYh-RTCWFXWug3KOcKQ | | ⚙️ |

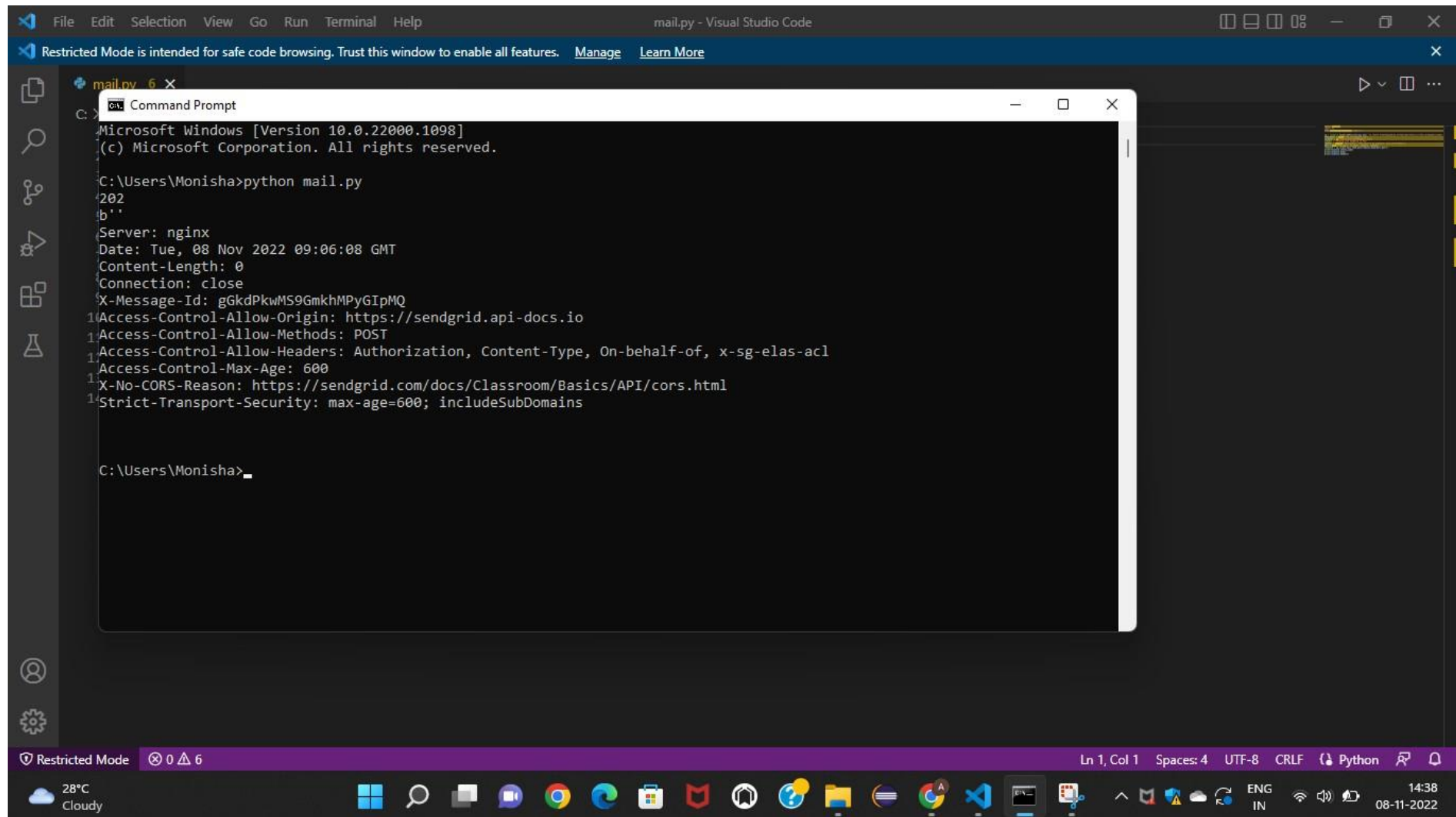
The bottom of the image shows a Windows taskbar with various application icons, the system clock showing 14:36 on 08-11-2022, and the weather as 28°C Cloudy.

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

```
import sendgrid
import os
from sendgrid.helpers.mail import *

sg = sendgrid.SendGridAPIClient(api_key= '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' )
from_email = Email("godsonrajr@gmail.com")
to_email = To("godsonrajr01@gmail.com")
subject = "IBM project is in phase of final stage"
content = Content("text/plain", "and easy to do anywhere, even with Python")
mail = Mail(from_email, to_email, subject, content)
response = sg.client.mail.send.post(request_body=mail.get())
print(response.status_code)
print(response.body)
print(response.headers)
```

Running the python file through the terminal



The screenshot shows the Visual Studio Code interface with a file named `mail.py` open. A terminal window is running the command `python mail.py`. The output of the script is a simulated HTTP response from an nginx server. The status bar at the bottom indicates the file is in 'Restricted Mode' and the current cursor position is 'Ln 1, Col 1'.

```
File Edit Selection View Go Run Terminal Help
mail.py - Visual Studio Code
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
mail.py 6 X
C:\> Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Monisha>python mail.py
202
b''
Server: nginx
Date: Tue, 08 Nov 2022 09:06:08 GMT
Content-Length: 0
Connection: close
X-Message-Id: gGkdPkwMS9GmkhMPyGIpMQ
1Access-Control-Allow-Origin: https://sendgrid.api-docs.io
1Access-Control-Allow-Methods: POST
1Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
1Access-Control-Max-Age: 600
1X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
1Strict-Transport-Security: max-age=600; includeSubDomains

C:\Users\Monisha>
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python

28°C Cloudy 14:38 08-11-2022

Test mail received via SendGrid

