

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

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

## Creating an API Key

Browser tabs: Meet - bnk-fkr-yfd, Installing the stand-alone IBM Cl, Inbox (4,368) - godsonrajr@gmail, SendGrid

Address bar: app.sendgrid.com/settings/api\_keys

Notification: Before sending your first email, you'll need to create a sender identity. [Create a sender identity](#)

### API Keys

Create API Key

NAME	API KEY	ACTION
<b>raj</b> API Key ID: D8Y53524SymJBMPNK-oE5w	.....	⚙️

Left sidebar menu:

- GODSON RAJ R
- Dashboard
- Email API
- Marketing
- Design Library
- Stats
- Activity
- Suppressions
- Settings

Windows taskbar:

Icons: Windows, Search, Dell, File Explorer, Chrome, Word

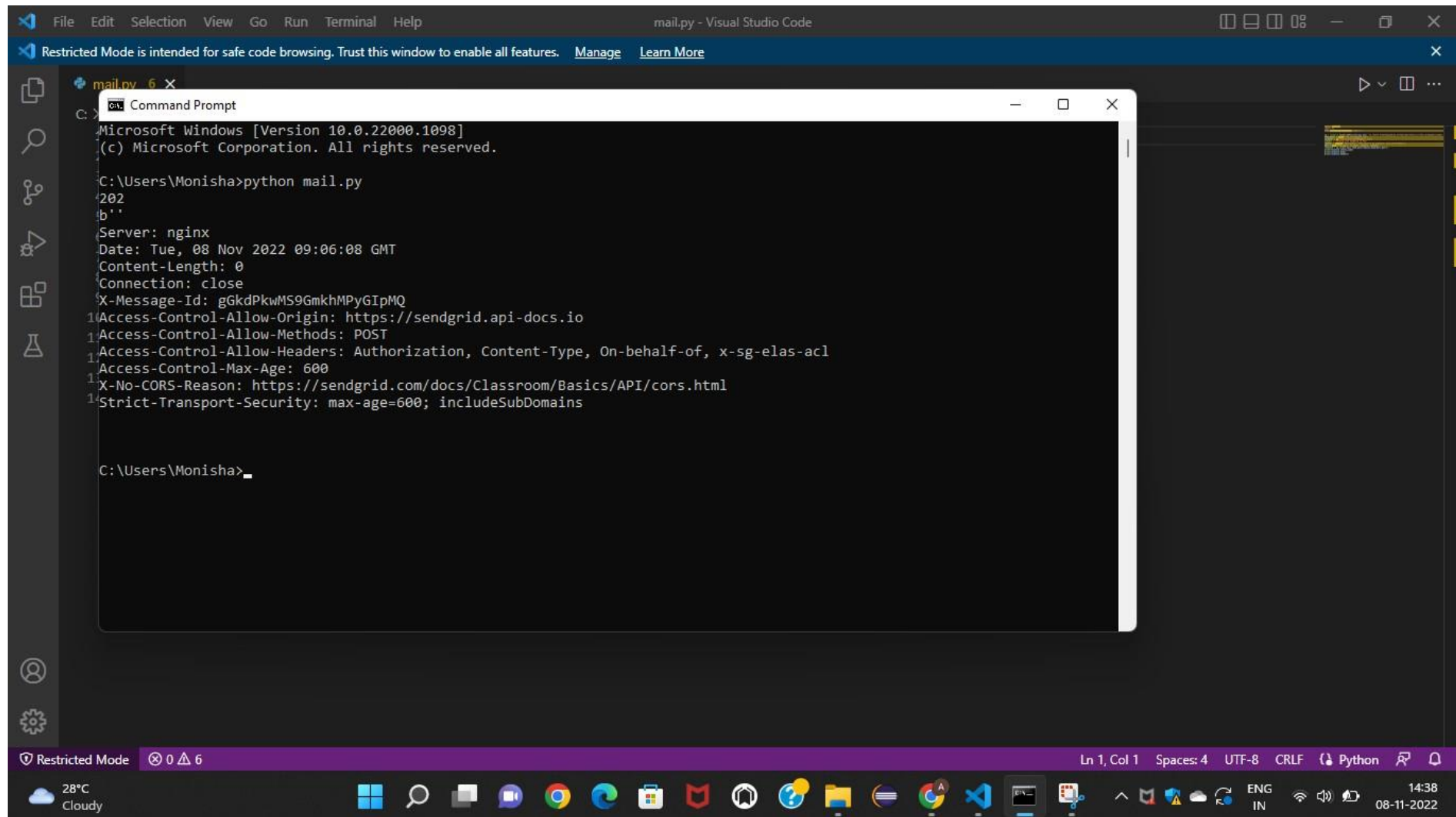
System tray: ENG IN, 11:10 PM, 08-11-2022

**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 Command Prompt window is overlaid on the editor, displaying the output of running `python mail.py`. The output shows a successful HTTP request to `https://sendgrid.api-docs.io` with various headers and a 202 status code. The terminal window is titled "Command Prompt" and shows the following text:

```
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>
```

The Visual Studio Code status bar at the bottom indicates "Restricted Mode" with 0 errors and 6 warnings. The taskbar at the bottom shows the system clock as 14:38 on 08-11-2022, with a temperature of 28°C and a cloudy weather condition.

## Test mail received via SendGrid

