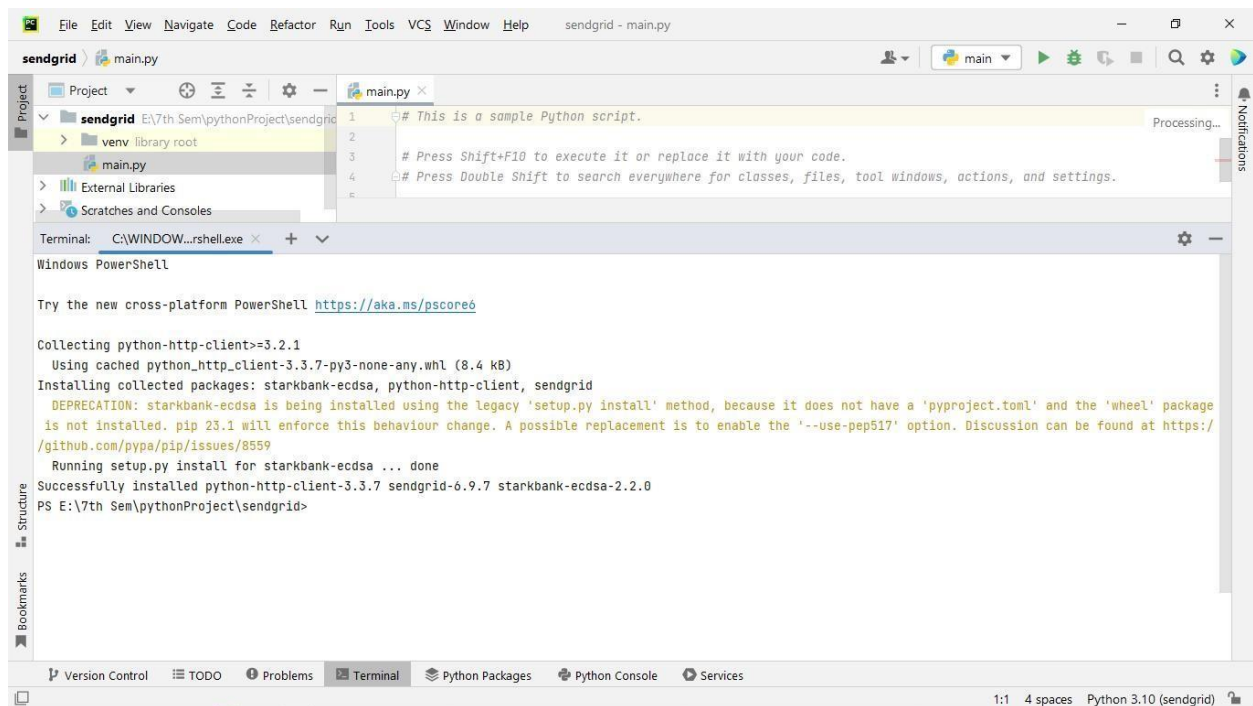


## INTEGRATING SENDGRID SERVICE

DATE	12-11-2022
TEAM ID	PNT2022TMID33691
PROJECT NAME	Personal Expense Tracker Application

### SendGrid Integration With Python Code

To send emails from the application we need to integrate the SendGrid Service. Please reference link.



The screenshot shows a Visual Studio Code editor window titled 'sendgrid - main.py'. The editor displays a Python script in 'main.py' with the following content:

```
1 # This is a sample Python script.  
2  
3 # Press Shift+F10 to execute it or replace it with your code.  
4 # Press Double Shift to search everywhere for classes, files, tool windows, actions, and settings.
```

Below the editor, a terminal window is open, showing the output of a pip installation command. The terminal text is as follows:

```
Try the new cross-platform PowerShell https://aka.ms/pscore6  
  
Collecting python-http-client>=3.2.1  
Using cached python_http_client-3.3.7-py3-none-any.whl (8.4 kB)  
Installing collected packages: starkbank-ecdsa, python-http-client, sendgrid  
DEPRECATION: starkbank-ecdsa is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559  
Running setup.py install for starkbank-ecdsa ... done  
Successfully installed python-http-client-3.3.7 sendgrid-6.9.7 starkbank-ecdsa-2.2.0  
PS E:\7th Sem\pythonProject\sendgrid>
```

### Code:

```
import sendgrid  
import os  
from sendgrid.helpers.mail import Mail, Email, To, Content  
sg = sendgrid.SendGridAPIClient(api_key=os.environ.get('SENDGRID_API_KEY'))  
from_email = Email("shakthidharunr@gmail.com")  
to_email = To("20euit510@skcet.ac.in")  
subject = "Personal Expense Tracker Application"  
content = Content("text/plain", "IBM Nalaiya Thiran Project")  
mail = Mail(from_email, to_email, subject, content)  
mail_json = mail.get()  
response = sg.client.mail.send.post(request_body=mail_json)  
print(response.status_code)  
print(response.headers)
```