

Open Source Software

Lab Test 2

ODD SYSTEMS

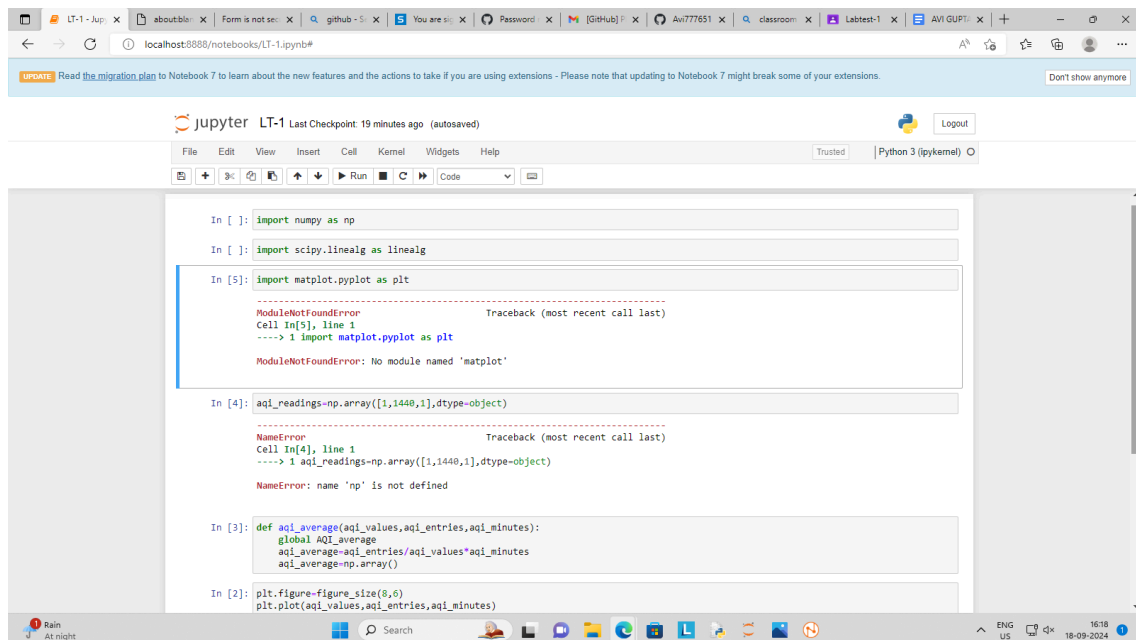
Avi Gupta

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Code Link-[Q1 - Jupyter Notebook](#) , [q2 - Jupyter Notebook](#)

Github Profile Link-[Avi777651 \(github.com\)](#)



The screenshot shows a Jupyter Notebook interface with the following code cells and errors:

```
In [ ]: import numpy as np
```

```
In [ ]: import scipy.linalg as linalg
```

```
In [5]: import matplotlib.pyplot as plt
```

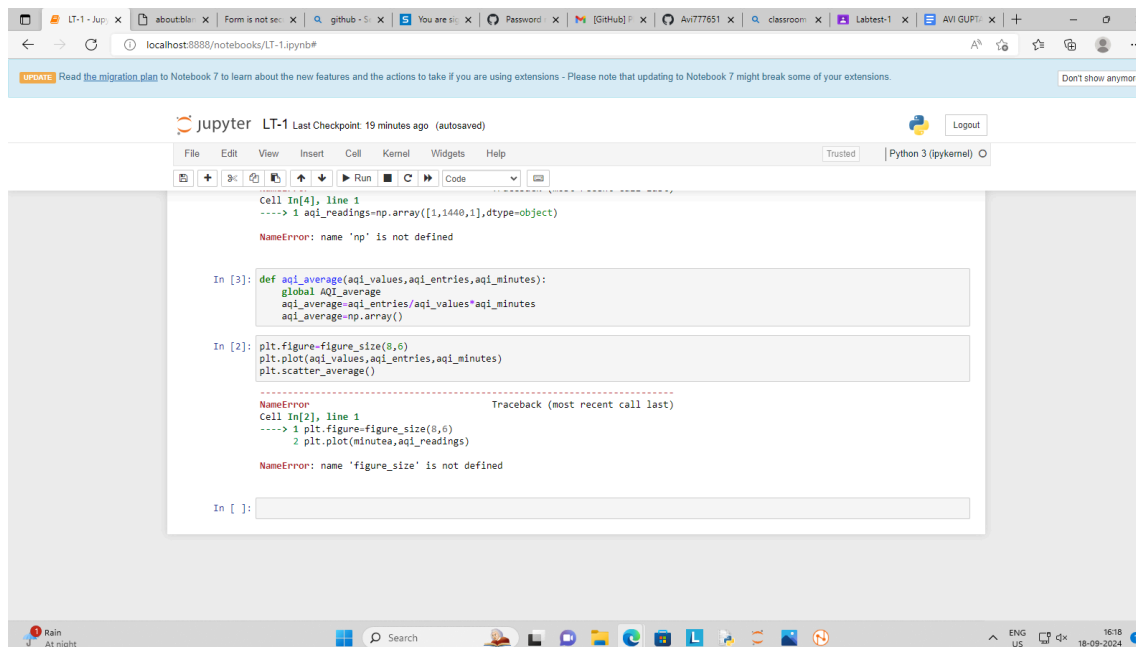
ModuleNotFoundError: No module named 'matplotlib'

```
In [4]: aqi_readings=np.array([1,1440,1],dtype=object)
```

NameError: name 'np' is not defined

```
In [3]: def aqi_average(aqi_values,aqi_entries,aqi_minutes):
        global AQI_average
        aqi_average=aqi_entries/aqi_values*aqi_minutes
        aqi_average=np.array()
```

```
In [2]: plt.figure=figure_size(8,6)
        plt.plot(aqi_values,aqi_entries,aqi_minutes)
```



The screenshot shows a Jupyter Notebook interface with the following code cells and errors:

```
Cell In[4], line 1
----> 1 aqi_readings=np.array([1,1440,1],dtype=object)
```

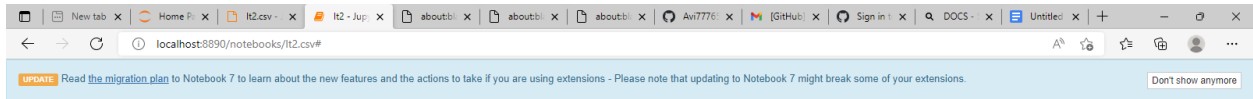
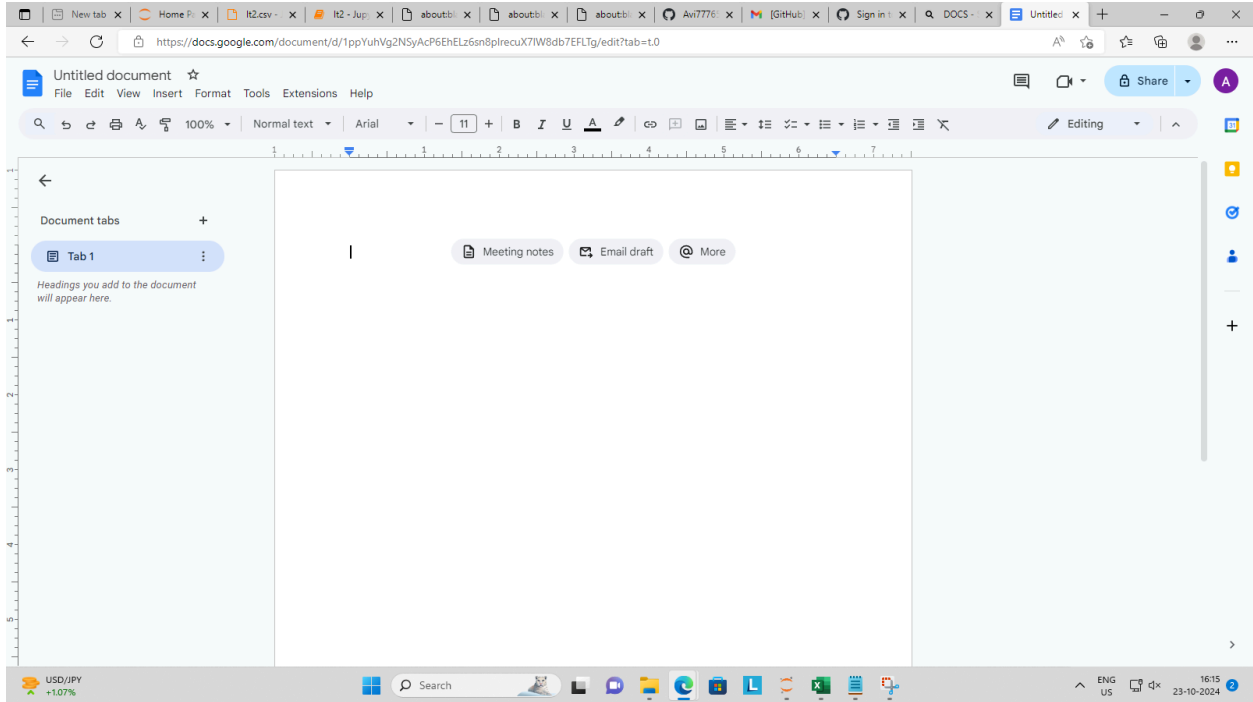
NameError: name 'np' is not defined

```
In [3]: def aqi_average(aqi_values,aqi_entries,aqi_minutes):
        global AQI_average
        aqi_average=aqi_entries/aqi_values*aqi_minutes
        aqi_average=np.array()
```

```
In [2]: plt.figure=figure_size(8,6)
        plt.plot(aqi_values,aqi_entries,aqi_minutes)
        plt.scatter_average()
```

NameError: name 'figure_size' is not defined

```
In [ ]:
```



jupyter It2 Last Checkpoint: 8 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted Python 3 (ipykernel)

```

n, memory_map, is_text, errors, storage_options)
854 elif isinstance(handle, str):
855     # Check whether the filename is to be opened in binary mode.
856     # Binary mode does not support 'encoding' and 'newline'.
857     if ioargs.encoding and "b" not in ioargs.mode:
858         # Encoding
859         handle = open(
860             handle,
861             ioargs.mode,
862             encoding=ioargs.encoding,
863             errors=errors,
864             newline="",
865         )
866     else:
867         # Binary mode
868         handle = open(handle, ioargs.mode)

FileNotFoundError: [Errno 2] No such file or directory: 'lt2.csv'
```

```
In [11]: mongo_schema={
    "supplier_id": "number",
    "supplier_name": "string",
    "location": {
        "city": "string",
        "state": "string",
        "zip": "string",
        "Medicare_Paarticipation": "string"
    },
    "supplies": "string"
}
```

Browser tabs: New tab, Home P, It2.csv, It2 - Jup, about:blank, about:blank, about:blank, Ant776, GitHub, Sign in, DOCS, Untitled. Address bar: localhost:8890/notebooks/It2.csv#

UPDATE: Read the [migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions. Don't show anymore

jupyter It2 Last Checkpoint 8 minutes ago (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

File Explorer: [terminal] no such file or directory: It2.csv

```
In [11]: mongo_schema={
    "supplier_id": "number",
    "supplier_name": "string",
    "location": {
        "city": "string",
        "state": "string",
        "zip": "string"
    },
    "Medicare_Paarticipation": "string",
    "supplies": "string"
}

In [12]: print(mongo_schema)
{'supplier_id': 'number', 'supplier_name': 'string', 'location': {'city': 'string', 'state': 'string', 'zip': 'string'}}
```

```
In [ ]:

In [ ]: supplier_id= df[(df['Provider ID'] >= 20506619) & (df['Provider ID'] <= 123123123)]
print('Updated phone numbers of the provider:')
print(supplier_id)

In [ ]:
```

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Browser tabs: Sec - Jupyter Notebook, JIIT Internet User Portal, Untitled document - Google Do, Evaluation - 02. Address bar: localhost:8888/notebooks/Sec.ipynb

UPDATE: Read the [migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions. Don't show anymore

jupyter Sec Last Checkpoint 31 minutes ago Autosave Failed Logout

File Edit View Insert Cell Kernel Widgets Help Not Connected error Not Trusted Python 3 (ipykernel)

```
In [1]: from PIL import Image

In [2]: def caesar_encrypt(message, shift):
    encrypted_message = ""
    for char in message:
        if char.isalpha():
            shifted = ord(char) + shift
            if char.islower():
                if shifted > ord('z'):
                    shifted -= 26
            elif char.isupper():
                if shifted > ord('Z'):
                    shifted -= 26
            encrypted_message += chr(shifted)
        else:
            encrypted_message += char
    return encrypted_message

    Cell In[2], line 2
    encrypted_message = ""
    IndentationError: expected an indented block after function definition on line 1

In [3]: def encode_message(image_path, message, output_path):
    img = Image.open(image_path)
    encoded = img.copy()
    message += '\n'
    binary_message = ""
    for char in message:
```