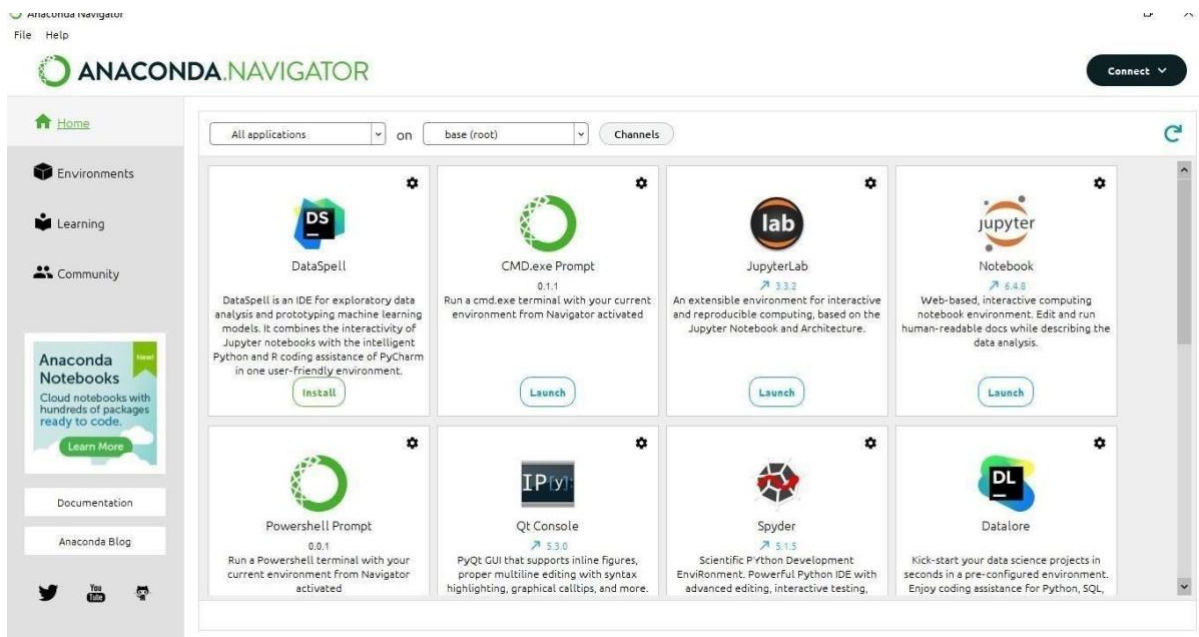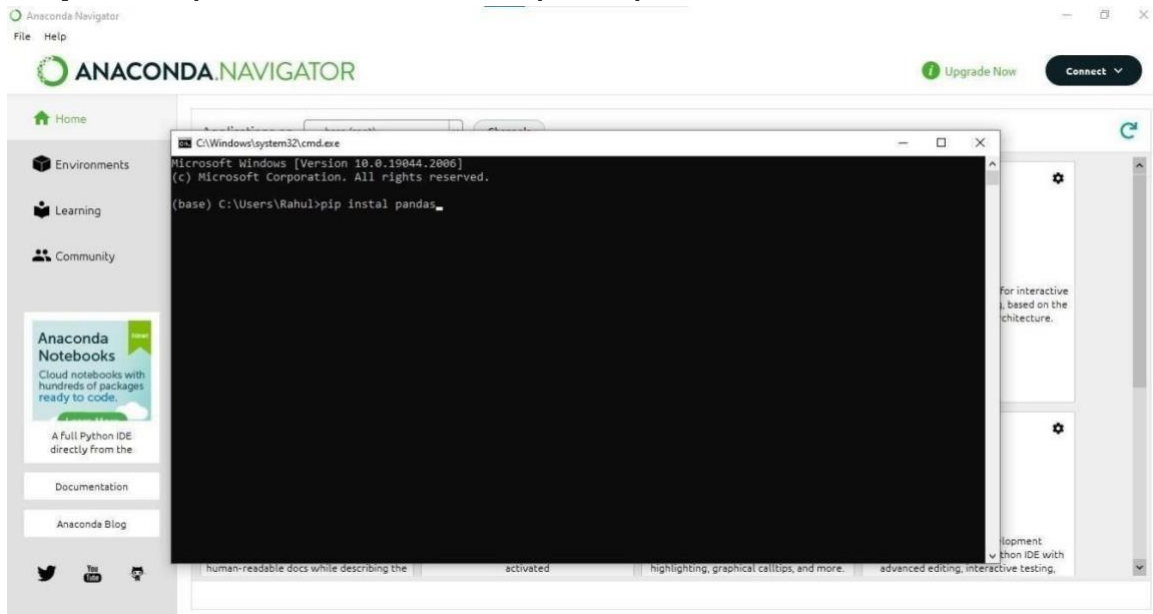| Team ID	PNT2022TMID54006
Project Name	Exploratory Analysis of Rain Fall Data in India for Agriculture

Installing python package

Step 1 : Open the anaconda navigator.
In the star menu

Step 2 : Open the CMD.exe prompt

Step 3 :

Install the **NUMPY** package .

- To enter the **numpy** package enter the command in
  the   CMD.
- exe Command : **Pip install numpy NUMPY :**

Numpy:
- This package is used to perform numerical computations.
- This package is pre-installed in anaconda .
- NumPy is used for working with arrays.
- NumPy is short for   "Numerical Python"

```
C:\Windows\system32\cmd.exe                                          —  □  ×

Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

(base) C:\Users\Rahul>pip instal pandas
ERROR: unknown command "instal" - maybe you meant "install"

(base) C:\Users\Rahul>pip install pandas
Requirement already satisfied: pandas in c:\users\rahul\anaconda3\lib\site-packages (1.4.2)
Requirement already satisfied: python-dateutil>=2.8.1 in c:\users\rahul\anaconda3\lib\site-packages (from pandas) (2.8.2
)
Requirement already satisfied: numpy>=1.18.5 in c:\users\rahul\anaconda3\lib\site-packages (from pandas) (1.21.5)
Requirement already satisfied: pytz>=2020.1 in c:\users\rahul\anaconda3\lib\site-packages (from pandas) (2021.3)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from python-dateutil>=2.8.1->pand
as) (1.16.0)

(base) C:\Users\Rahul>pip instal numpy
ERROR: unknown command "instal" - maybe you meant "install"

(base) C:\Users\Rahul>pip install numpy
Requirement already satisfied: numpy in c:\users\rahul\anaconda3\lib\site-packages (1.21.5)

(base) C:\Users\Rahul>
```
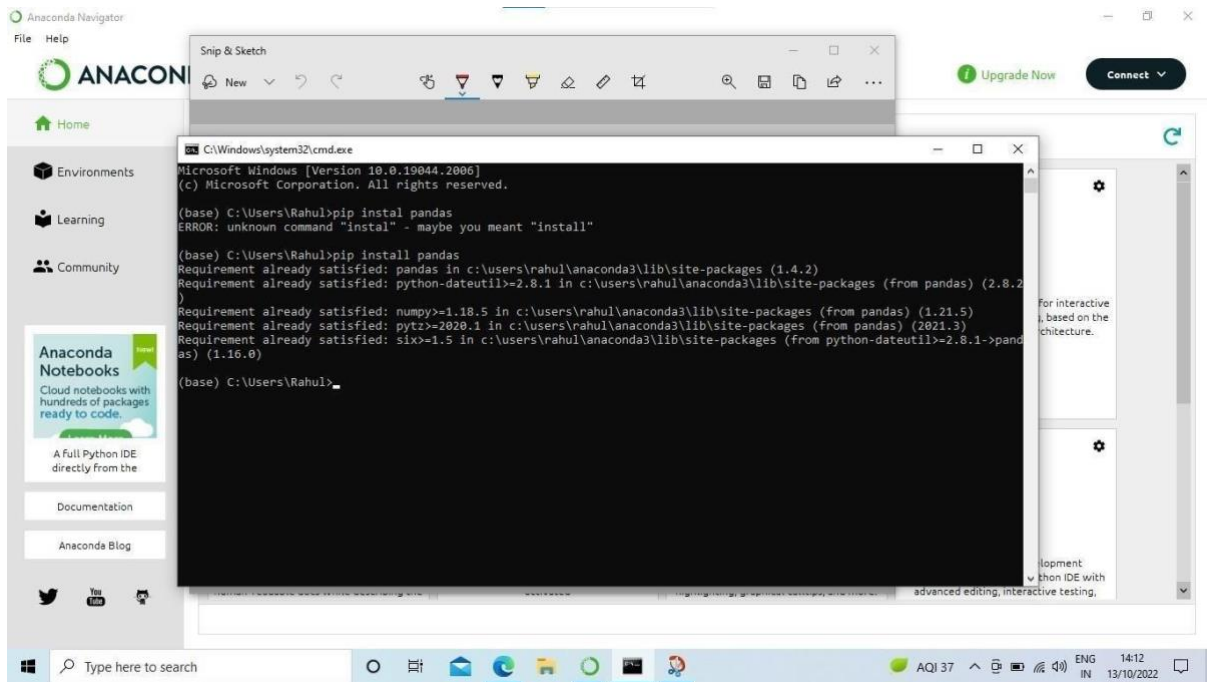
Step 4 : install the **pandas** package .

To enter the **pandas** package enter the command in the CMD.

exe Command: **Pip install pandas**

Pandas :

 Pandas is one of the most widely used python libraries in data science. It provides high-performance, easy to use structures, and data analysis tools. This package is pre-installed in anaconda is an open-source library that is built on top of

Step 5 :

install the **Matplotlib** package .

To enter the**Matplotlib** package enter the command in the CMD.

exe **Command :** Pip install Matplotlib

Matplotlib:

Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python.

This package is pre-installed in anaconda .

- Matplotlib is an amazing visualization library in Python for 2D plots of arrays.
- Matplotlib is a multi-platform data visualization library built on NumPy arrays and designed to work with the broader SciPy stack.

- It was introduced by John Hunter in the year 2002.

Step 6 : install the **Scikit-learn** package to enter the **Scikitlearn** package enter the command in the CMD

exe **Command:** Pip install Scikit-learn

Scikit-learn :

This is a machine learning library for the Python programming language. This package is pre-installed in anaconda.

- Scikit learn in python is mostly used in python for focusing on the modeling.
  - It simply focused on modeling not focused on loading the data.

```
C:\Windows\system32\cmd.exe                                                    —  □  ×

Requirement already satisfied: itsdangerous>=0.24 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: colorama in c:\users\rahul\anaconda3\lib\site-packages (from click>=5.1->flask) (0.4.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\rahul\anaconda3\lib\site-packages (from Jinja2>=2.10.1->flas
k) (2.0.1)

(base) C:\Users\Rahul>pip install matplotlib
Requirement already satisfied: matplotlib in c:\users\rahul\anaconda3\lib\site-packages (3.5.1)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.8
.2)
Requirement already satisfied: pillow>=6.2.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (9.0.1)
Requirement already satisfied: cycler>=0.10 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (0.11.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.3.2)

Requirement already satisfied: fonttools>=4.22.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (4.25.0
)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (3.0.4)
Requirement already satisfied: numpy>=1.17 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.21.5)
Requirement already satisfied: packaging>=20.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (21.3)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplo
tlib) (1.16.0)

(base) C:\Users\Rahul>pip install scikit-learn
Requirement already satisfied: scikit-learn in c:\users\rahul\anaconda3\lib\site-packages (1.0.2)
Requirement already satisfied: threadpoolctl>=2.0.0 in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (2
.2.0)
Requirement already satisfied: joblib>=0.11 in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (1.1.0)
Requirement already satisfied: scipy>=1.1.0 in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (1.7.3)
Requirement already satisfied: numpy>=1.14.6 in c:\users\rahul\anaconda3\lib\site-packages (from scikit-learn) (1.21.5)

(base) C:\Users\Rahul>
```

Step 7: Install the **Flask** package .

To enter the **Flask** package enter the command in the CMD,

exe **Command:** Pip install Flask

Flask :


```
C:\Windows\system32\cmd.exe                                                    —  □  ×

ERROR: Could not find a version that satisfies the requirement matpotlib==6.0 (from versions: none)
ERROR: No matching distribution found for matpotlib==6.0

(base) C:\Users\Rahul>pip install flask
Requirement already satisfied: flask in c:\users\rahul\anaconda3\lib\site-packages (1.1.2)
Requirement already satisfied: click>=5.1 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (8.0.4)
Requirement already satisfied: Jinja2>=2.10.1 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.11.3)
Requirement already satisfied: Werkzeug>=0.15 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.3)
Requirement already satisfied: itsdangerous>=0.24 in c:\users\rahul\anaconda3\lib\site-packages (from flask) (2.0.1)
Requirement already satisfied: colorama in c:\users\rahul\anaconda3\lib\site-packages (from click>=5.1->flask) (0.4.4)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\rahul\anaconda3\lib\site-packages (from Jinja2>=2.10.1->flas
k) (2.0.1)

(base) C:\Users\Rahul>pip install matplotlib
Requirement already satisfied: matplotlib in c:\users\rahul\anaconda3\lib\site-packages (3.5.1)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (2.8
.2)
Requirement already satisfied: pillow>=6.2.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (9.0.1)
Requirement already satisfied: cycler>=0.10 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (0.11.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.3.2)

Requirement already satisfied: fonttools>=4.22.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (4.25.0
)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (3.0.4)
Requirement already satisfied: numpy>=1.17 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (1.21.5)
Requirement already satisfied: packaging>=20.0 in c:\users\rahul\anaconda3\lib\site-packages (from matplotlib) (21.3)
Requirement already satisfied: six>=1.5 in c:\users\rahul\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplo
tlib) (1.16.0)

(base) C:\Users\Rahul>
```

- **Flask is a lightweight WSGI web application framework** Flask is a web application framework written in Python.

- Armin Ronacher, who leads an international group of Python enthusiasts named Pocco, develops it.
- Flask is based on Werkzeug WSGI toolkit and Jinja2 template engine. Both are Pocco projects.