School: SOET Campus: Vzm

Academic Year: 2021/2026 Subject Name: DAVP Subject Code: CutmDL8

Semester: 7th Program: B.TECH Branch: ECE Specialization: ECE

Date:

Applied and Action Learning

(Learning by Doing and Discovery)

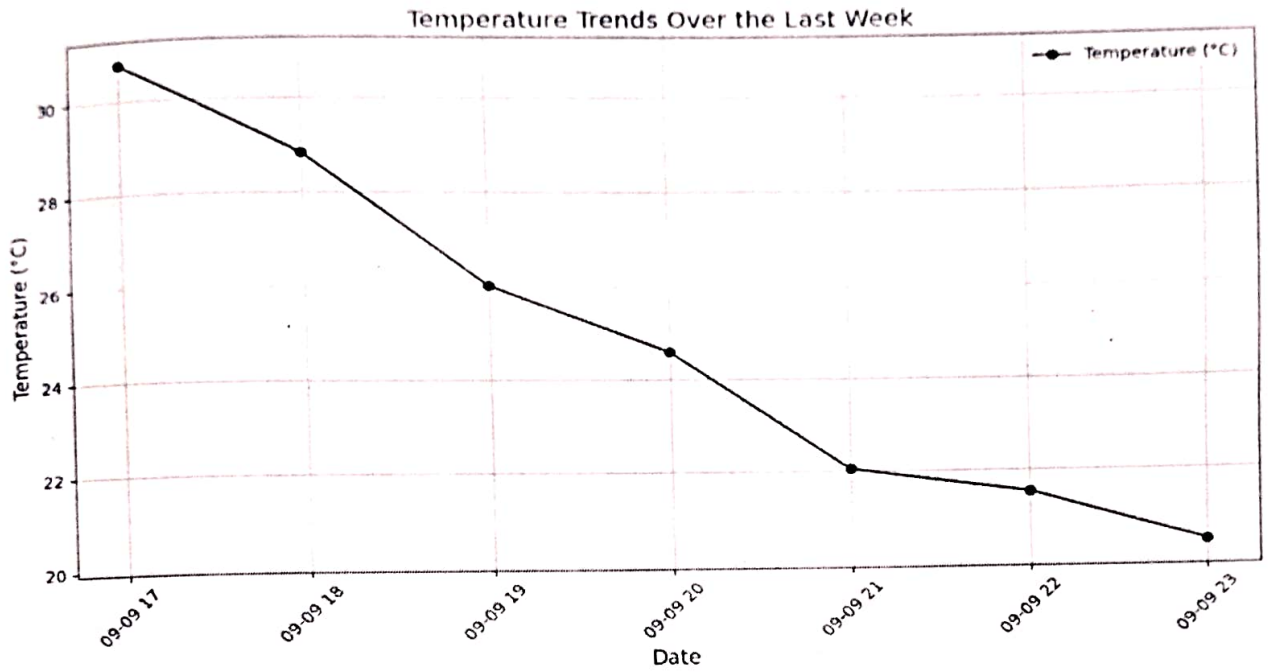
ame of the Experiement : Use web scraping to extract weather data from a website.

:oding Phase: Pseudo Code / Flow Chart / Algorithm

- load the dataset using 'pd.read_csv()
- verify that the dataset contains 'formatted Date' & 'temperature (C)' columns.
- convert the "formated Date" and 'Temperature': formate.
- filter the last 7 days of data using 'df.tail(7)'.
- extract the 'formatted Date' and 'Temperature (C)' columns for plotting
- plot the temperature trend using 'matplotlib', with dates
- display the plot with labels, title, grid, and legend.

Testing Phase: Compilation of Code (error detection)

Implementation Phase: Final Output (no error)



ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	**50**		

Signature of the Student: G. Sumanth

Name : G. Sumanth

Regn. No. : 211801131001

Signature of the Faculty:

```
Import panday as pd
import matplotlib.pyplot as plt
df = pd.read_csv('WeatherHistory.csv')
Print(df.head())
If 'formatted Date' not in df.columns or 'Temperature(C)' not
   in df.columns:
.raise valueError("Dataset must have 'formatted Date' 'columns")
df['formatted Date'] = pd.to_datetime(df['formatted Date'])
.df_last_week = df.tail(7)
dates = df_last_Week["formatted Date']
temperature_data = df_last_Week
Plt.figure(figsize=(10,6))
Plt.plot(dates, temperature_data, marker='o', color='b', label
                                    = 'Temperature(°C)')
Plt.title('Temperature Trends over the last week', fontsize=14)
Plt.xlabel('Date', fontsize=12)
Plt.ylabel('Temperature (°C)', fontsize=12)
Plt.xticks(rotation=45)
Plt.grid(True)
Plt.legend()
Plt.tight_layout()
Plt.show()
```