Name: Kushal Kishor Shankhapal

Group C, Assignment 8:   Live Weather Report

Problem Statement:

Write a program to find the live weather report (temperature, wind speed, description, and weather) of a given city. (Python).

Live_Weather_Report.py

```python
import requests
from bs4 import BeautifulSoup
import csv

url = "https://webscraper.io/test-sites/e-commerce/allinone/computers/tablets"
r = requests.get(url)
soup = BeautifulSoup(r.text, "lxml")

products = soup.find_all("div", class_="thumbnail")
product_data = []

for product in products:
    name_tag = product.find("a", class_="title")
    product_name = name_tag.text.strip() if name_tag else "N/A"

    price_tag = product.find("h4", class_="price")
    product_price = price_tag.text.strip() if price_tag else "N/A"

    ratings_div = product.find("div", class_="ratings")
    if ratings_div:
        star_tags = ratings_div.find_all("span", class_="glyphicon glyphicon-star")
        product_rating = str(len(star_tags))  # Number of stars
    else:
        product_rating = "N/A"

    product_data.append([product_name, product_price, product_rating])

csv_filename = "product_data.csv"
with open(csv_filename, 'w', newline='', encoding='utf-8') as csvfile:
    csv_writer = csv.writer(csvfile)
    csv_writer.writerow(["Product Name", "Product Price", "Product Rating"])
    csv_writer.writerows(product_data)

print(f"Data successfully scraped and saved to {csv_filename}")
```

Output:

```
it@IT-SWL-09:~$ python3 main.py
Enter the city name
Nashik
Displaying Weater report for: Nashik
Weather report: Nashik


     \   /     Sunny
      .-.      +26(27) °C
   ─ (   ) ─   ↗ 13 km/h
      `-'      10 km
     /   \     0.0 mm
                                            ┌─────────────┐
┌───────────────────────────┬──────────────┤  Mon 06 Oct ├──────────────┬───────────────────────────┐
│            Morning         │             Noon      └──────┬──────┘     Evening          │            Night          │
├───────────────────────────┼───────────────────────────┼───────────────────────────┼───────────────────────────┤
│     \   /     Sunny        │     \   /     Sunny        │     \   /     Clear        │     \   /     Clear        │
│      .-.      +25(26) °C    │      .-.      +28(29) °C    │      .-.      +24(26) °C    │      .-.      +22(25) °C    │
│   ─ (   ) ─   → 13-15 km/h  │   ─ (   ) ─   ↗ 17-20 km/h  │   ─ (   ) ─   → 20-30 km/h  │   ─ (   ) ─   → 18-27 km/h  │
│      `-'      10 km        │      `-'      10 km        │      `-'      10 km        │      `-'      10 km        │
│     /   \     0.0 mm | 0%  │     /   \     0.0 mm | 0%  │     /   \     0.0 mm | 0%  │     /   \     0.0 mm | 0%  │
└───────────────────────────┴───────────────────────────┴───────────────────────────┴───────────────────────────┘
                                            ┌─────────────┐
┌───────────────────────────┬──────────────┤  Tue 07 Oct ├──────────────┬───────────────────────────┐
│            Morning         │             Noon      └──────┬──────┘     Evening          │            Night          │
├───────────────────────────┼───────────────────────────┼───────────────────────────┼───────────────────────────┤
│     \   /     Sunny        │ _`/"".-.     Patchy rain ne…│ _`/"".-.     Patchy rain ne…│ _`/"".-.     Patchy rain ne…│
│      .-.      +24(26) °C    │  ,\_(   ).   +28(29) °C    │  ,\_(   ).   +24(26) °C    │  ,\_(   ).   +23(25) °C    │
│   ─ (   ) ─   → 15-17 km/h  │  /(___(__)  → 16-18 km/h   │  /(___(__)  → 12-19 km/h   │  /(___(__)  → 10-16 km/h   │
│      `-'      10 km        │   ' ' ' '    10 km         │   ' ' ' '    9 km          │   ' ' ' '    10 km         │
│     /   \     0.0 mm | 0%  │   ' ' ' '    0.1 mm | 100%  │   ' ' ' '    1.0 mm | 100%  │   ' ' ' '    0.1 mm | 100%  │
└───────────────────────────┴───────────────────────────┴───────────────────────────┴───────────────────────────┘
                                            ┌─────────────┐
┌───────────────────────────┬──────────────┤  Wed 08 Oct ├──────────────┬───────────────────────────┐
│            Morning         │             Noon      └──────┬──────┘     Evening          │            Night          │
├───────────────────────────┼───────────────────────────┼───────────────────────────┼───────────────────────────┤
│     \   /     Sunny        │ _`/"".-.     Patchy rain ne…│ _`/"".-.     Patchy rain ne…│ _`/"".-.     Patchy rain ne…│
│      .-.      +24(26) °C    │  ,\_(   ).   +27(29) °C    │  ,\_(   ).   +25(27) °C    │  ,\_(   ).   +23(25) °C    │
│   ─ (   ) ─   ↓ 7-8 km/h    │  /(___(__)  ↙ 4-5 km/h     │  /(___(__)  ↘ 13-22 km/h   │  /(___(__)  ↘ 12-20 km/h   │
│      `-'      10 km        │   ' ' ' '    10 km         │   ' ' ' '    9 km          │   ' ' ' '    10 km         │
│     /   \     0.0 mm | 0%  │   ' ' ' '    0.0 mm | 63%  │   ' ' ' '    0.2 mm | 100%  │   ' ' ' '    0.1 mm | 100%  │
└───────────────────────────┴───────────────────────────┴───────────────────────────┴───────────────────────────┘

Location: Nashik, Maharashtra, India [20.216667,74.083333]


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```