Mini Project & Assignment:

Mini Project
- Line plot of temperature over days
- Bar chart for average rainfall per month
- Pie chart for weather types (Sunny, Rainy, Cloudy)

Assignment
1. Create the following charts using your project dataset:
   - One line chart
   - One bar chart
   - One scatter plot
   - One pie chart
2. Save each chart using:
3. plt.savefig('filename.png')
4. Submit a short presentation (PPT or PDF) of your visualizations with interpretations.

1. **Line Chart – Temperature Over Days**

   Interpretation:
   The line chart shows a fluctuating trend in temperature over 5 days. The temperature peaks on day 2 and then gradually declines, indicating a cooling trend.

2. **Pie Chart – Weather Type Distribution**

   Interpretation:
   Most days are categorized as "Sunny," with fewer days being "Cloudy" or "Rainy." This indicates that the overall weather pattern during this period was generally clear.

3. **Scatter Plot – Temperature vs Humidity**

   Interpretation:
   There is no strong linear relationship, but higher humidity seems more common at lower temperatures, which may hint at early morning or pre-rainfall conditions.

4. **Bar Chart – Average Wind Speed by Rain Status**

   Interpretation:
   Rainy days have slightly higher wind speeds on average than non-rainy days. This suggests wind conditions may increase during rainfall.
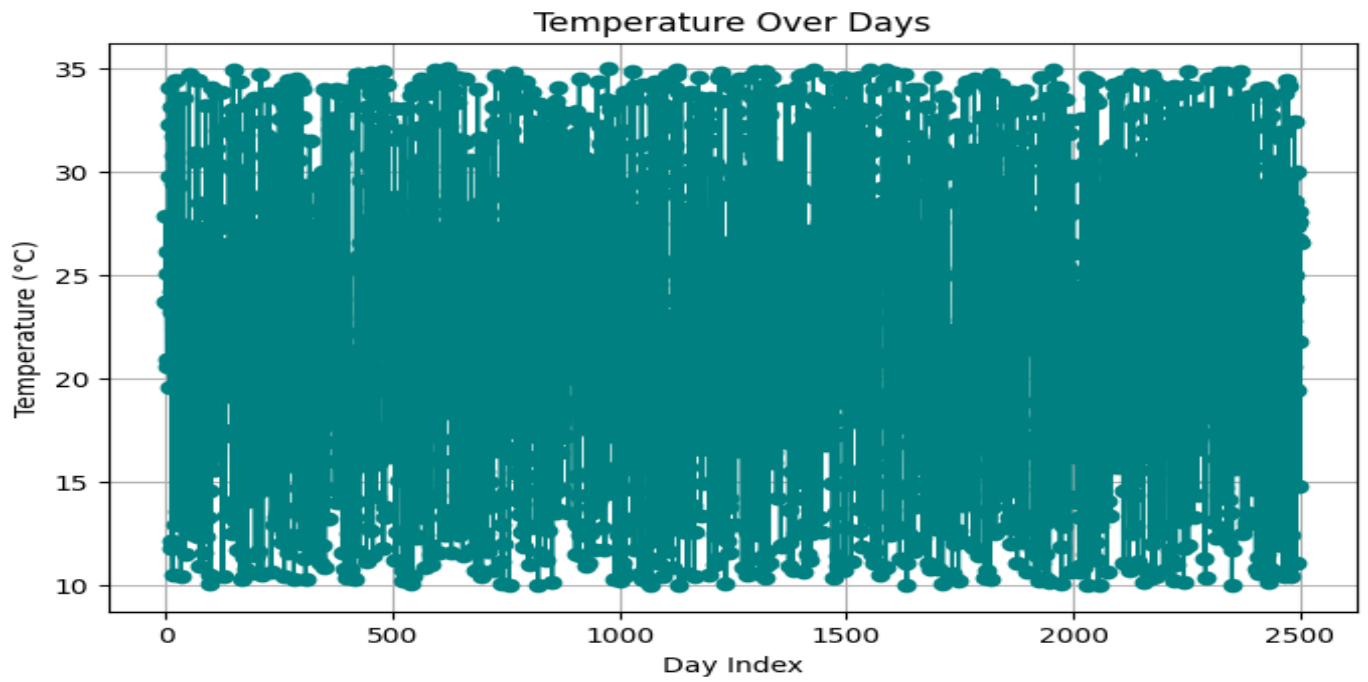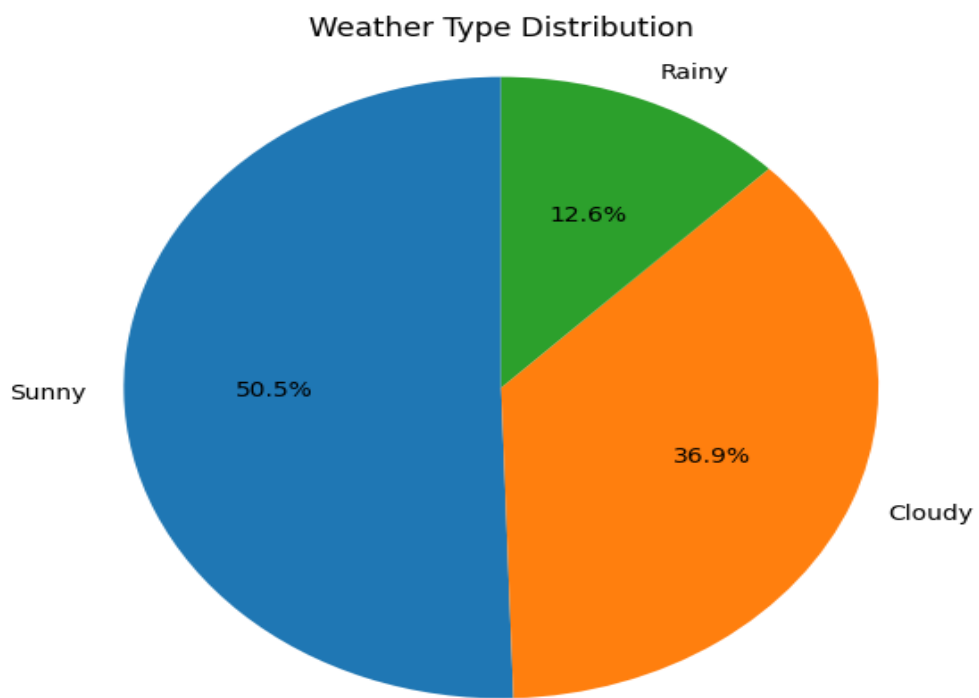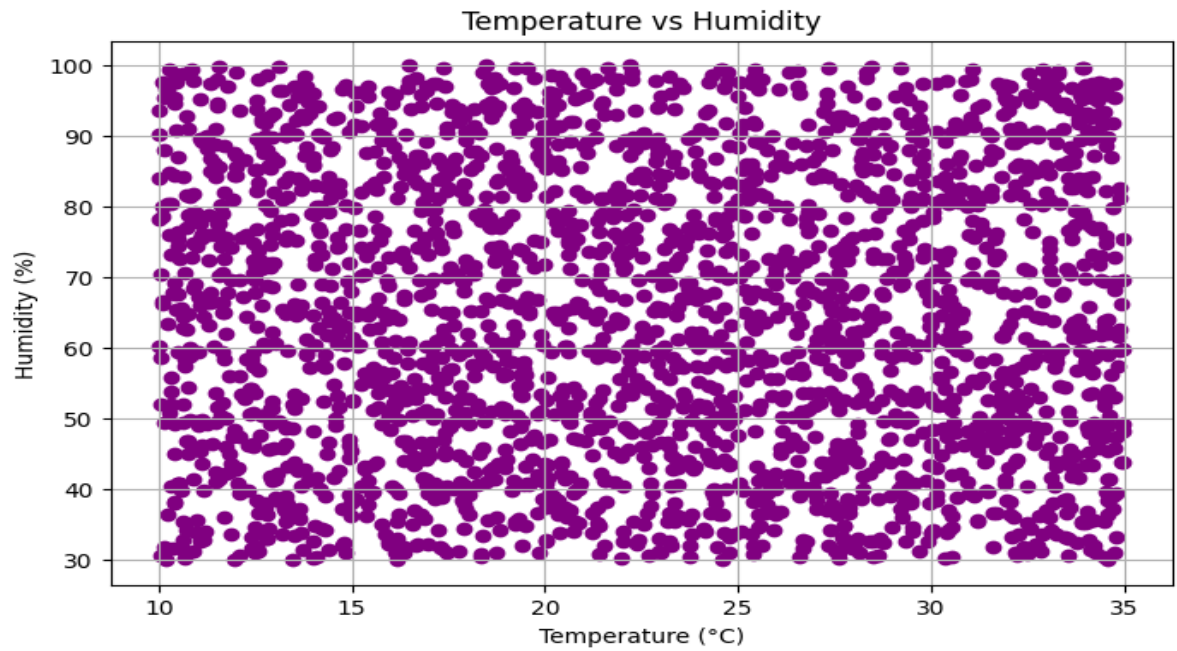
Fig 1: Line Graph

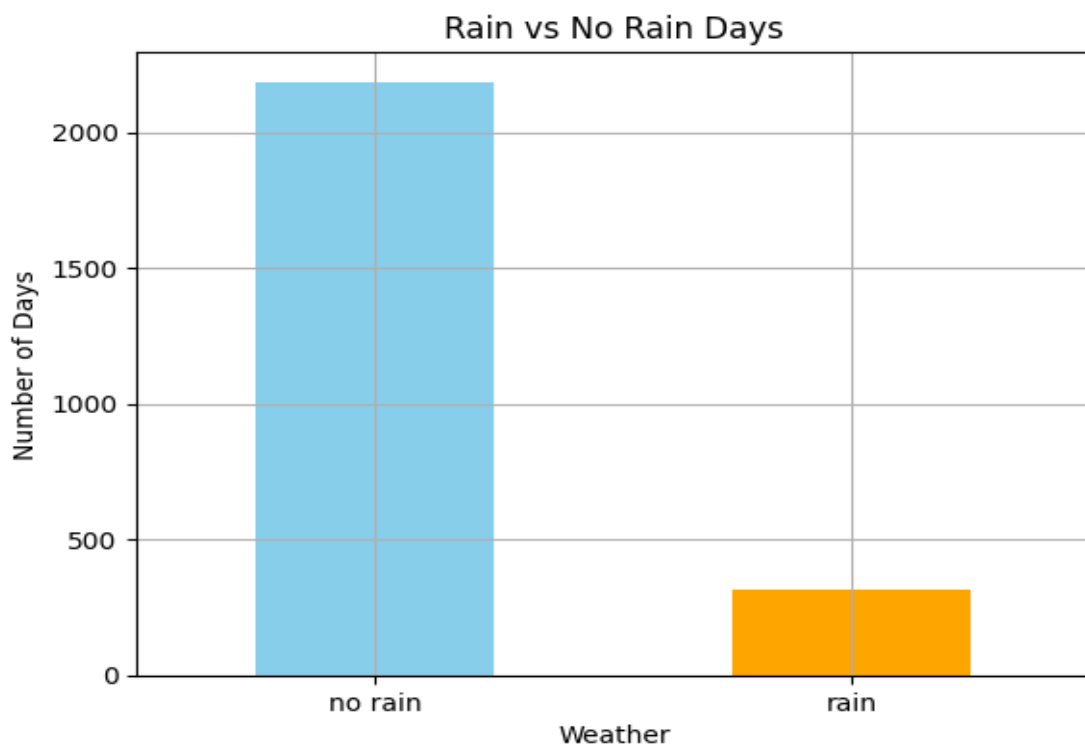Fig 2: Pie Chart

Fig 3: Scatter plot

Fig 4: Bar Chart