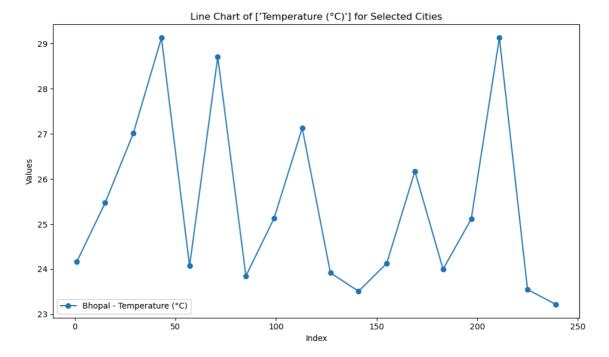
```
import numpy as np
In [3]:
        import pandas as pd
        import matplotlib.pyplot as plt
        #Load the CSV file
        data = pd.read_csv("C:/Users/ajayb/Downloads/Weather_Data_CSV_File.csv")
        # Function to plot charts for multiple cities and columns
        def plot_chart(cities, columns, chart_type):
            # Filter the data for the selected cities
            filtered_data = data[data['Name'].isin(cities)]
            plt.figure(figsize=(10,6))
            # Line chart
            if chart_type == 'line':
                for column in columns:
                    for city in cities:
                        city_data = filtered_data[filtered_data['Name'] == city]
                        plt.plot(city_data.index, city_data[column], label=f'{city}
                plt.title(f'Line Chart of {columns} for Selected Cities')
                plt.xlabel('Index')
                plt.ylabel('Values')
            # Bar chart
            elif chart_type == 'bar':
                for column in columns:
                    for city in cities:
                        city_data = filtered_data[filtered_data['Name'] == city]
                        plt.bar(city_data.index, city_data[column], label=f'{city}
                plt.title(f'Bar Chart of {columns} for Selected Cities')
                plt.xlabel('Index')
                plt.ylabel('Values')
                plt.grid()
            # Pie chart (can only visualize a single column per city)
            elif chart_type == 'pie':
                for column in columns:
                    for city in cities:
                        city data = filtered data[filtered data['Name'] == city]
                        plt.figure(figsize=(7,7))
                        plt.pie(city_data[column], labels=city_data.index, autopct=
                        plt.title(f'Pie Chart of {column} for {city}')
                        plt.show()
                return
            plt.legend()
            plt.tight_layout()
            plt.show()
        # Ask user for input
        cities = input("Enter the cities you want to visualize (comma-separated): "
        columns = input("Enter the columns you want to visualize (comma-separated):
        chart_type = input("Enter the chart type (pie, line, bar): ")
        # Clean up city and column names (remove extra spaces)
        cities = [city.strip() for city in cities]
        columns = [column.strip() for column in columns]
```

```
# Plot the chart
plot_chart(cities, columns, chart_type)
```

Enter the cities you want to visualize (comma-separated): Bhopal
Enter the columns you want to visualize (comma-separated): Temperature (°
C)

Enter the chart type (pie, line, bar): line



Out[4]:

	Name	Longitude	Latitude	Temperature (°C)	Feels Like (°C)	Humidity (%)	Wind Speed (m/s)	Wind Gust (m/s)	Clouds (%)	De
0	Indore	75.8333	22.7179	25.10	26.12	94	3.60	NaN	40	
1	Bhopal	77.4000	23.2667	24.17	25.02	91	4.45	7.73	100	
2	Jabalpur	79.9501	23.1670	27.47	31.97	89	3.09	NaN	75	
3	Balaghat	80.1833	21.8000	27.11	30.29	83	0.36	0.55	100	
4	Dewas	76.0667	22.9667	25.10	26.12	94	4.70	8.04	100	
1607	Vaijapur	74.7333	19.9167	30.10	32.24	56	6.78	6.63	90	
1608	Sennar	33.5672	13.5691	29.95	32.16	57	3.74	4.12	87	
1609	Chakan	73.8500	18.7500	28.79	31.13	63	6.58	7.11	67	
1610	Shirur	74.3725	18.8266	28.98	30.85	59	6.63	7.07	96	
1611	Ajanta	75.7514	20.5325	26.04	26.04	83	3.93	6.45	100	

1612 rows × 12 columns

In [ ]: