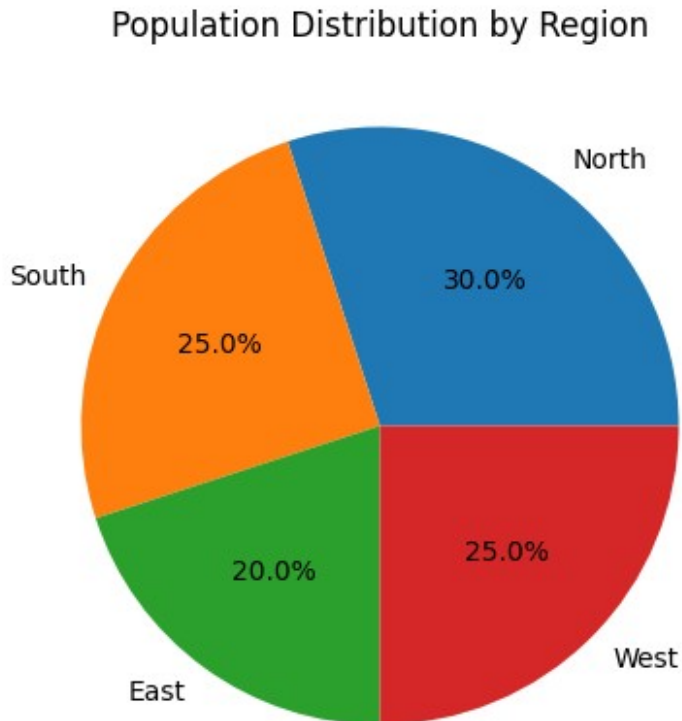


```
import matplotlib.pyplot as plt

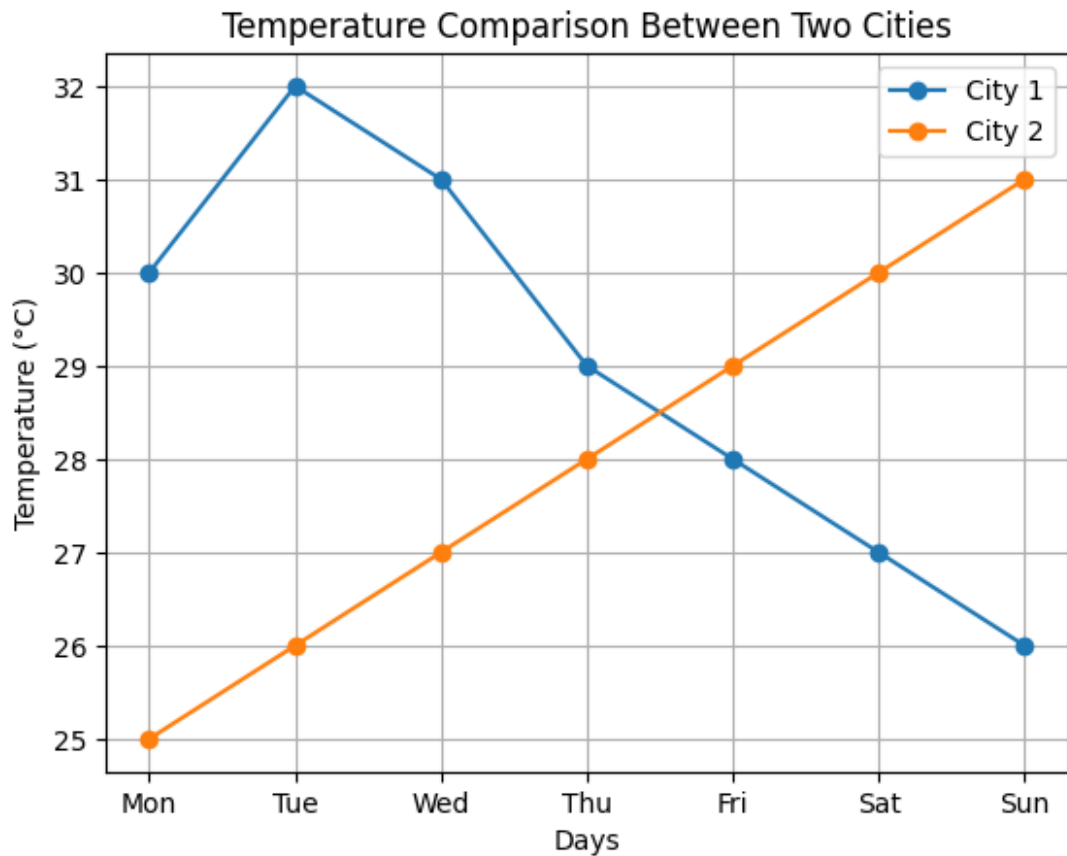
regions = ['North', 'South', 'East', 'West']
population = [30, 25, 20, 25]

plt.figure(figsize=(5, 5))
plt.pie(population, labels=regions, autopct='%1.1f%%')
plt.title("Population Distribution by Region")
plt.show()
```



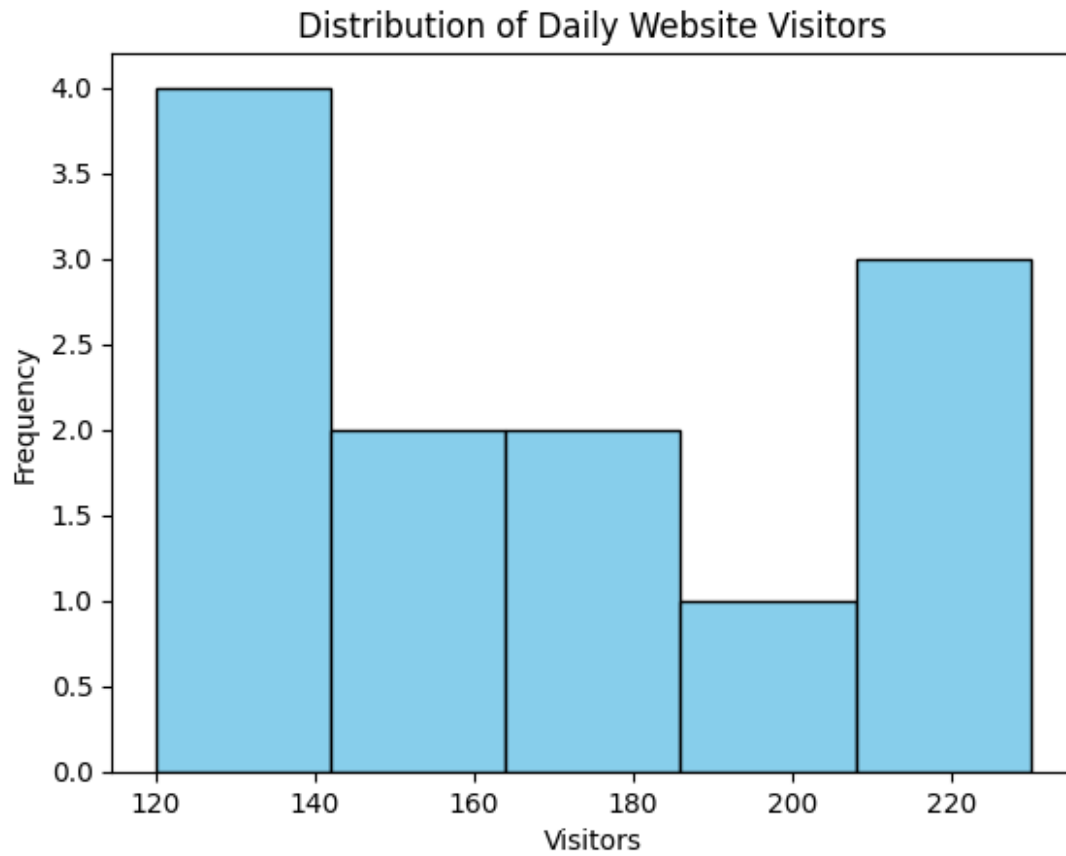
```
days = ['Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', 'Sun']
city1_temp = [30, 32, 31, 29, 28, 27, 26]
city2_temp = [25, 26, 27, 28, 29, 30, 31]

plt.figure()
plt.plot(days, city1_temp, label='City 1', marker='o')
plt.plot(days, city2_temp, label='City 2', marker='o')
plt.title("Temperature Comparison Between Two Cities")
plt.xlabel("Days")
plt.ylabel("Temperature (°C)")
plt.legend()
plt.grid(True)
plt.show()
```



```
visitors = [120, 130, 125, 140, 160, 170, 150, 180, 200, 220, 210, 230]
```

```
plt.figure()
plt.hist(visitors, bins=5, color='skyblue', edgecolor='black')
plt.title("Distribution of Daily Website Visitors")
plt.xlabel("Visitors")
plt.ylabel("Frequency")
plt.show()
```



```
sales = [100, 200, 300, 400, 500, 600]
profit = [20, 40, 60, 80, 100, 120]

plt.figure()
plt.scatter(sales, profit, color='green')
plt.title("Sales vs Profit")
plt.xlabel("Sales")
plt.ylabel("Profit")
plt.grid(True)
plt.show()
```



```
import numpy as np

months = ['Week 1', 'Week 2', 'Week 3', 'Week 4']
product1_sales = [150, 200, 180, 220]
product2_sales = [130, 170, 160, 210]

x = np.arange(len(months))
width = 0.35

plt.figure()
plt.bar(x - width/2, product1_sales, width, label='Product 1')
plt.bar(x + width/2, product2_sales, width, label='Product 2')
plt.xlabel("Weeks")
plt.ylabel("Sales")
plt.title("Sales Comparison of 2 Products Over a Month")
plt.xticks(x, months)
plt.legend()
plt.show()
```

