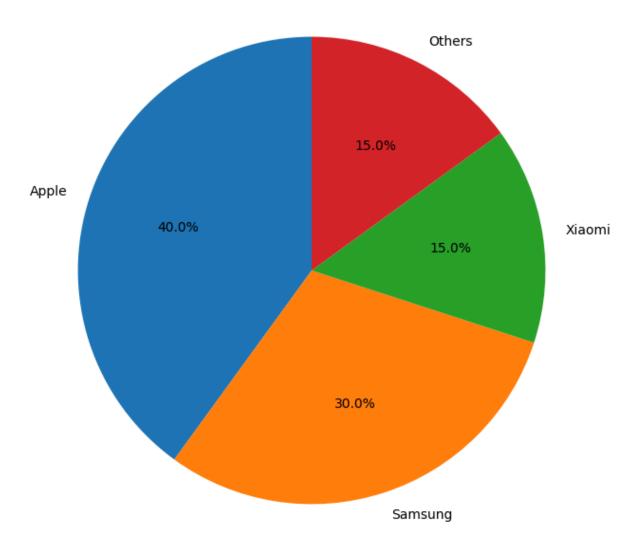
Sales of Ten Products 80 40 Product A Product B Product C Product D Product E Product F Product G Product H Product | Produ

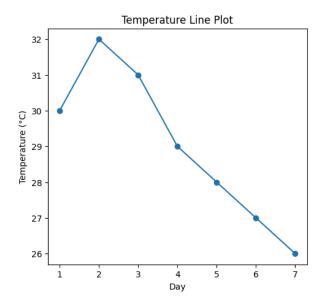
Products

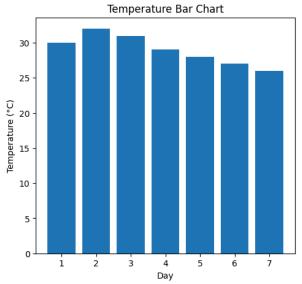
```
In [2]: # 2. Pie chart for market share data
market_share = {'Apple': 40, 'Samsung': 30, 'Xiaomi': 15, 'Others': 15}
labels = market_share.keys()
sizes = market_share.values()
plt.figure(figsize=(8, 8))
plt.pie(sizes, labels=labels, autopct='%1.1f%%', startangle=90)
plt.title('Market Share Data')
plt.show()
```

Market Share Data

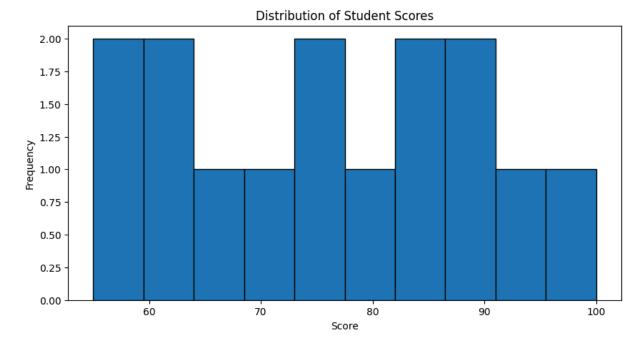


```
In [3]: # 3. Subplot with line plot and bar chart for temperatures
  temperatures = [30, 32, 31, 29, 28, 27, 26]
  days = range(1, 8)
  plt.figure(figsize=(12, 5))
  plt.subplot(1, 2, 1)
  plt.plot(days, temperatures, marker='o')
  plt.title('Temperature Line Plot')
  plt.xlabel('Day')
  plt.ylabel('Temperature (°C)')
  plt.subplot(1, 2, 2)
  plt.bar(days, temperatures)
  plt.title('Temperature Bar Chart')
  plt.xlabel('Day')
  plt.ylabel('Temperature (°C)')
  plt.ylabel('Temperature (°C)')
  plt.show()
```





```
In [4]: # 4. Histogram for student scores
scores = [55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 55, 60, 75, 85, 90]
plt.figure(figsize=(10, 5))
plt.hist(scores, bins=10, edgecolor='black')
plt.title('Distribution of Student Scores')
plt.xlabel('Score')
plt.ylabel('Frequency')
plt.show()
```

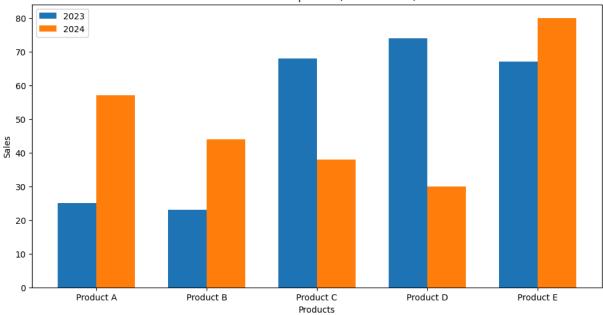


```
In [6]: # 5. Grouped bar chart for sales data of two years
products = ['Product A', 'Product B', 'Product C', 'Product D', 'Product E']
sales_2023 = np.random.randint(20, 80, 5) # Generate random sales data for 2023
sales_2024 = np.random.randint(30, 90, 5) # Generate random sales data for 2024

x = np.arange(len(products))
width = 0.35
```

```
plt.figure(figsize=(12, 6))
plt.bar(x - width/2, sales_2023, width, label='2023')
plt.bar(x + width/2, sales_2024, width, label='2024')
plt.title('Sales Data Comparison (2023 vs 2024)')
plt.xlabel('Products')
plt.ylabel('Sales')
plt.xticks(x, products)
plt.legend()
plt.show()
```

Sales Data Comparison (2023 vs 2024)



Tn []: