

In [1]:

In [2]: `import matplotlib.pyplot as plt`

In [3]: `import numpy as np`

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In [4]: # Data for the bar chart
categories = ['Category A', 'Category B', 'Category C', 'Category D', 'Category E']
values = [23, 56, 41, 62, 19]

# Data for the histogram
data = [12, 17, 21, 18, 14, 13, 16, 9, 12, 15, 19, 11, 14, 16, 20, 18, 15, 13, 17, 14]

# Data for the pie chart
labels = ['Apple', 'Banana', 'Orange', 'Mango']
sizes = [30, 25, 15, 30]

# Data for the scatter plot
x_values = [1, 2, 3, 4, 5]
y_values = [2, 5, 3, 6, 4]

# Create some random data for the other subplots
x = np.linspace(0, 2*np.pi, 100)

# Create a figure with 2x2 subplots
fig, axs = plt.subplots(2, 2, figsize=(8, 6))

# Plot a bar chart on the first subplot
axs[0, 0].bar(categories, values)
axs[0, 0].set_title('Bar Chart')

# Plot a histogram on the second subplot
axs[0, 1].hist(data, bins=5)
axs[0, 1].set_title('Histogram')

# Plot a pie chart on the third subplot
axs[1, 0].pie(sizes, labels=labels, autopct='%1.1f%%', shadow=True)
axs[1, 0].set_title('Pie Chart')

# Plot a scatter plot on the fourth subplot
axs[1, 1].scatter(x_values, y_values)
axs[1, 1].set_title('Scatter Plot')

# Adjust the spacing between subplots
plt.tight_layout()

# Show the figure
plt.show()
```

