phn-task-5

May 18, 2023

[9]:
```
import matplotlib.pyplot as plt
```

[10]:
```
# Data for bar chart
categories = ['Category A', 'Category B', 'Category C', 'Category D', 'Category␣
 ↪E']
values = [23, 56, 41, 62, 19]
```

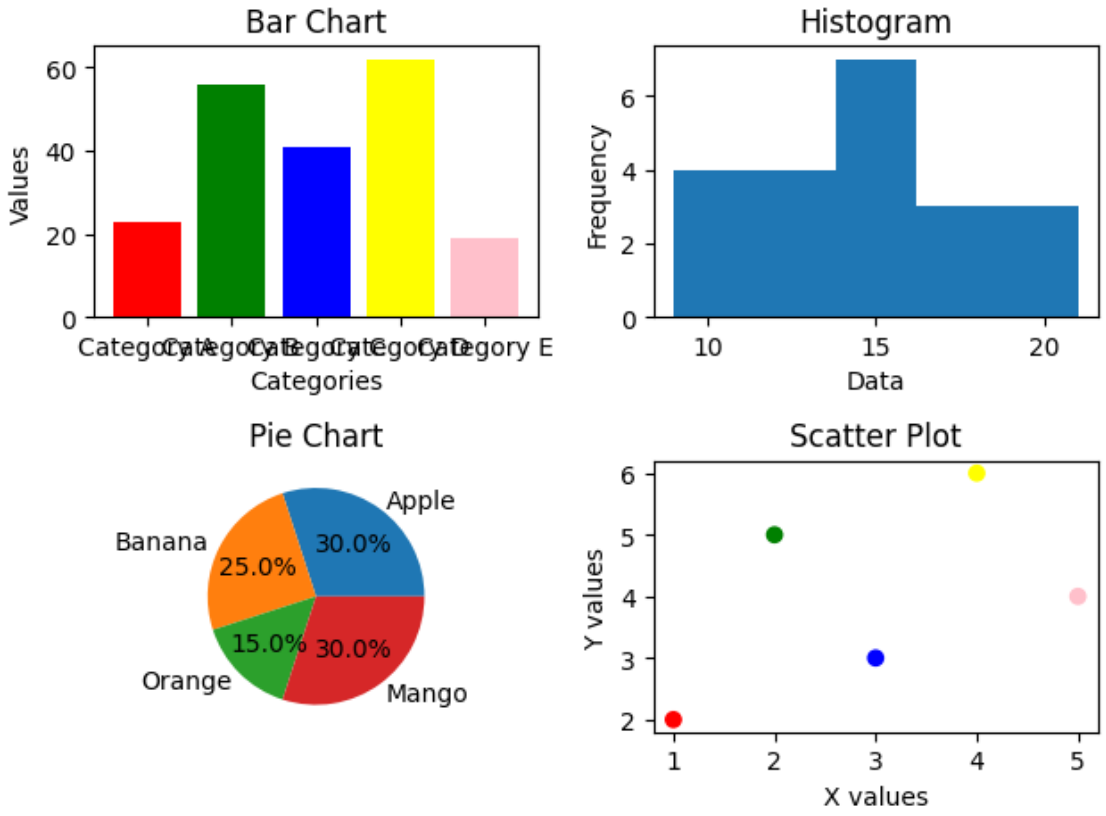
[11]:
```
# Data for histogram
data = [12, 17, 21, 18, 14, 13, 16, 9, 12, 15, 19, 11, 14, 16, 20, 18, 15, 13,␣
 ↪16, 11, 10]
```

[13]:
```
# Data for pie chart
labels = ['Apple', 'Banana', 'Orange', 'Mango']
sizes = [30, 25, 15, 30]
```

[15]:
```
# Data for scatter plot
x_values = [1, 2, 3, 4, 5]
y_values = [2, 5, 3, 6, 4]
```

[28]:
```
# Create a figure with 2x2 subplots
fig, axs = plt.subplots(2, 2)

# Plot bar chart
axs[0, 0].bar(categories, values ,color=['red','Green','blue','yellow','pink'])
axs[0, 0].set_title('Bar Chart')
axs[0, 0].set_xlabel('Categories')
axs[0, 0].set_ylabel('Values')

# Plot histogram
axs[0, 1].hist(data, bins=5)
axs[0, 1].set_title('Histogram')
axs[0, 1].set_xlabel('Data')
axs[0, 1].set_ylabel('Frequency')

# Plot pie chart
axs[1, 0].pie(sizes, labels=labels, autopct='%1.1f%%')
axs[1, 0].set_title('Pie Chart')
```

```
# Plot scatter plot
axs[1, 1].scatter(x_values,␣
 ↪y_values,color=['red','Green','blue','yellow','pink'])
axs[1, 1].set_title('Scatter Plot')
axs[1, 1].set_xlabel('X values')
axs[1, 1].set_ylabel('Y values')

# Adjust spacing between subplots
plt.tight_layout()

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



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