TASK – 3

CODE:

task 3.py 2

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```python
import pandas as pd
import matplotlib.pyplot as plt

# Sample DataFrame
data = {
    'Category': ['A', 'B', 'C', 'D'],
    'Values1': [10, 20, 15, 25],
    'Values2': [12, 18, 17, 22]
}
df = pd.DataFrame(data)

# Bar Chart
plt.figure(figsize=(10, 5))
plt.bar(df['Category'], df['Values1'], color='skyblue', label='Values1')
plt.bar(df['Category'], df['Values2'], color='orange', alpha=0.7, label='Values2', bottom=df['Values1'])
plt.title('Bar Chart Example')
plt.xlabel('Category')
plt.ylabel('Values')
plt.legend()
plt.grid(axis='y', linestyle='--', alpha=0.7)
plt.tight_layout()
plt.savefig('bar_chart.png')  # Save the figure
plt.show()

# Line Chart
plt.figure(figsize=(10, 5))
plt.plot(df['Category'], df['Values1'], marker='o', label='Values1')
plt.plot(df['Category'], df['Values2'], marker='s', label='Values2')
plt.title('Line Chart Example')
plt.xlabel('Category')
plt.ylabel('Values')
plt.legend()
plt.grid(axis='y', linestyle='--', alpha=0.7)
plt.tight_layout()
plt.savefig('line_chart.png')  # Save the figure
plt.show()
```

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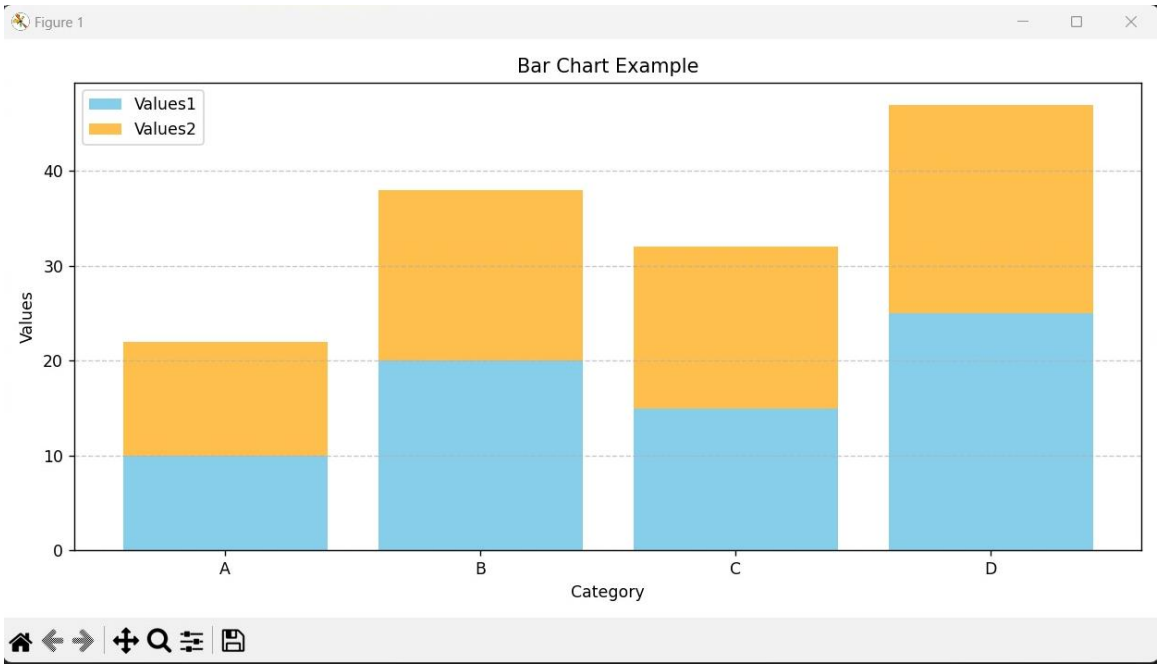
OUTPUT:

BAR CHART



LINE CHART

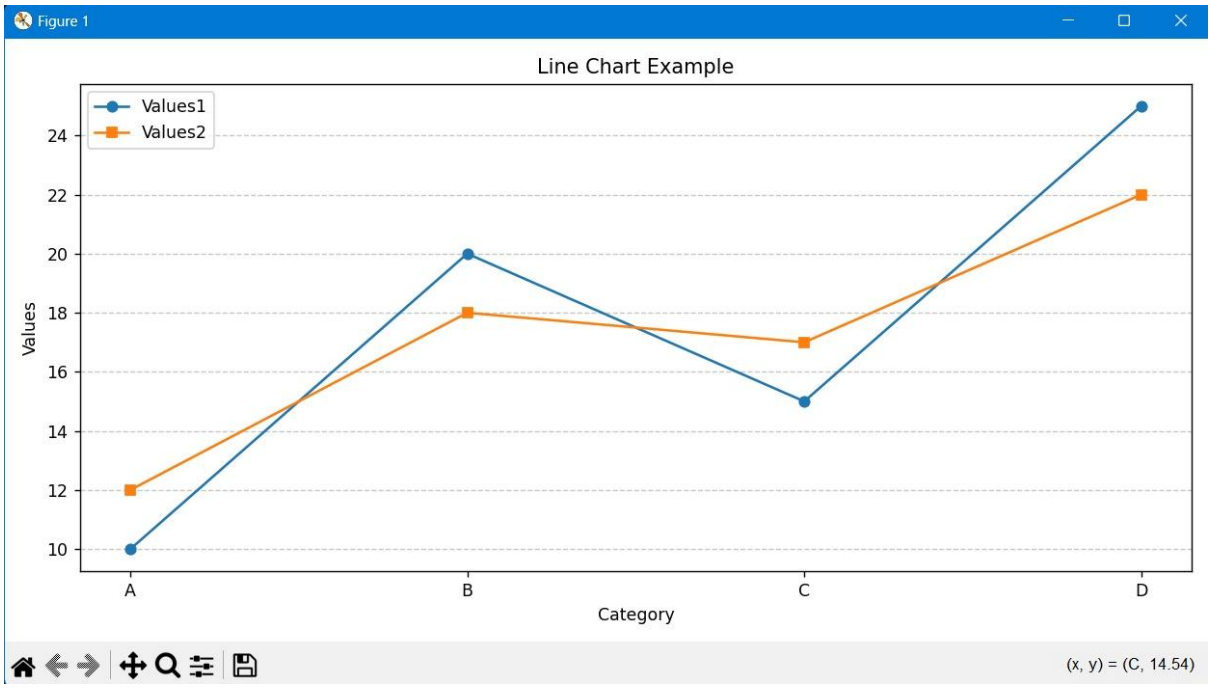


Figure 1
Line Chart Example
Values1
Values2
24
22
20
18
16
14
12
10
Values
A
B
C
D
Category
(x, y) = (C, 14.54)