

### Task 3

#### CODE:

task3.py 2 X

C:\Users\Acer> OneDrive\Desktop> Final year project> Timetable-Management-System-master (1)> Timetable-Management-System-master> task3.py > ...

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Sample DataFrame
5 data = {
6     'Category': ['A', 'B', 'C', 'D'],
7     'Values1': [10, 20, 15, 25],
8     'Values2': [12, 18, 17, 22]
9 }
10 df = pd.DataFrame(data)
11
12 # Bar Chart
13 plt.figure(figsize=(10, 5))
14 plt.bar(df['Category'], df['Values1'], color='skyblue', label='Values1')
15 plt.bar(df['Category'], df['Values2'], color='orange', alpha=0.7, label='Values2', bottom=df['Values1'])
16 plt.title('Bar Chart Example')
17 plt.xlabel('Category')
18 plt.ylabel('Values')
19 plt.legend()
20 plt.grid(axis='y', linestyle='--', alpha=0.7)
21 plt.tight_layout()
22 plt.savefig('bar_chart.png') # Save the figure
23 plt.show()
24
25 # Line Chart
26 plt.figure(figsize=(10, 5))
27 plt.plot(df['Category'], df['Values1'], marker='o', label='Values1')
28 plt.plot(df['Category'], df['Values2'], marker='s', label='Values2')
29 plt.title('Line Chart Example')
30 plt.xlabel('Category')
31 plt.ylabel('Values')
32 plt.legend()
33 plt.grid(axis='y', linestyle='--', alpha=0.7)
34 plt.tight_layout()
35 plt.savefig('line_chart.png') # Save the figure
36 plt.show()
```

OUTPUT:

