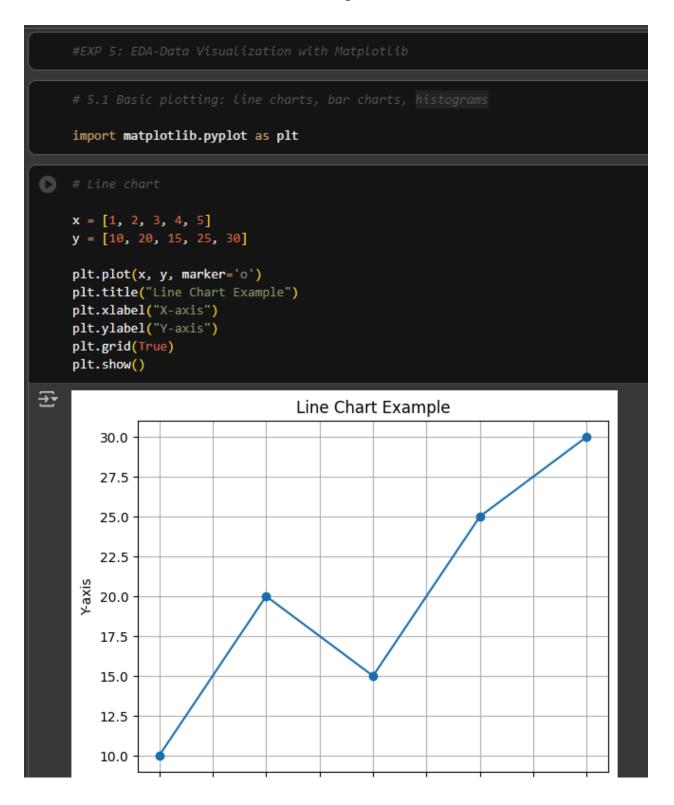
EXP 5: EDA - Data Visualization with Matplotlib



```
categories = ['Apples', 'Bananas', 'Cherries', 'Dates']
     values = [5, 7, 3, 4]
     plt.bar(categories, values, color='skyblue')
     plt.title("Bar Chart Example")
     plt.xlabel("Fruits")
     plt.ylabel("Quantity")
     plt.show()
₹
                                  Bar Chart Example
         7 -
         6 -
         5
     Quantity
         2 ·
         1 -
         0 -
                 Apples
                                                 Cherries
                                 Bananas
                                                                  Dates
                                          Fruits
```

```
import numpy as np

data = np.random.normal(loc=50, scale=10, size=1000)
plt.hist(data, bins=30, color='lightgreen', edgecolor='black')
plt.title("Histogram Example")
plt.xlabel("Value")
plt.ylabel("Frequency")
plt.show()
```

