

Assignment no 10

In []: Aim:
Data Visualization III

In [15]: `import seaborn as sns`
`import pandas as pd`

In [17]: `iris = sns.load_dataset('iris')`
`iris`

Out[17]:

	sep al_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

In [19]: `import matplotlib.pyplot as plt`

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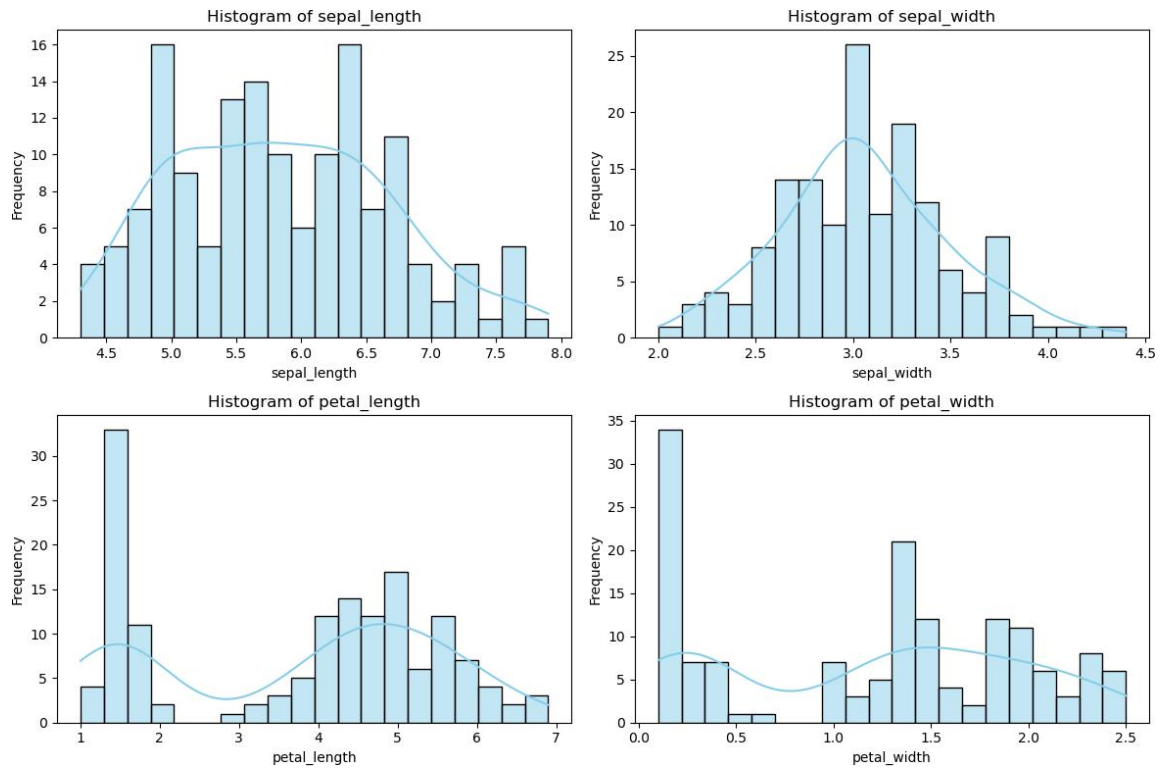
# Set up the plotting grid
plt.figure(figsize=(12, 8))

# Create a histogram for each feature
features = ['sepal_length', 'sepal_width', 'petal_length', 'petal_width']

for i, feature in enumerate(features, 1):
    plt.subplot(2, 2, i)
    sns.histplot(iris[feature], kde=True, bins=20, color='skyblue')
    plt.title(f'Histogram of {feature}')
    plt.xlabel(feature)
    plt.ylabel('Frequency')

plt.tight_layout()
plt.show()

```

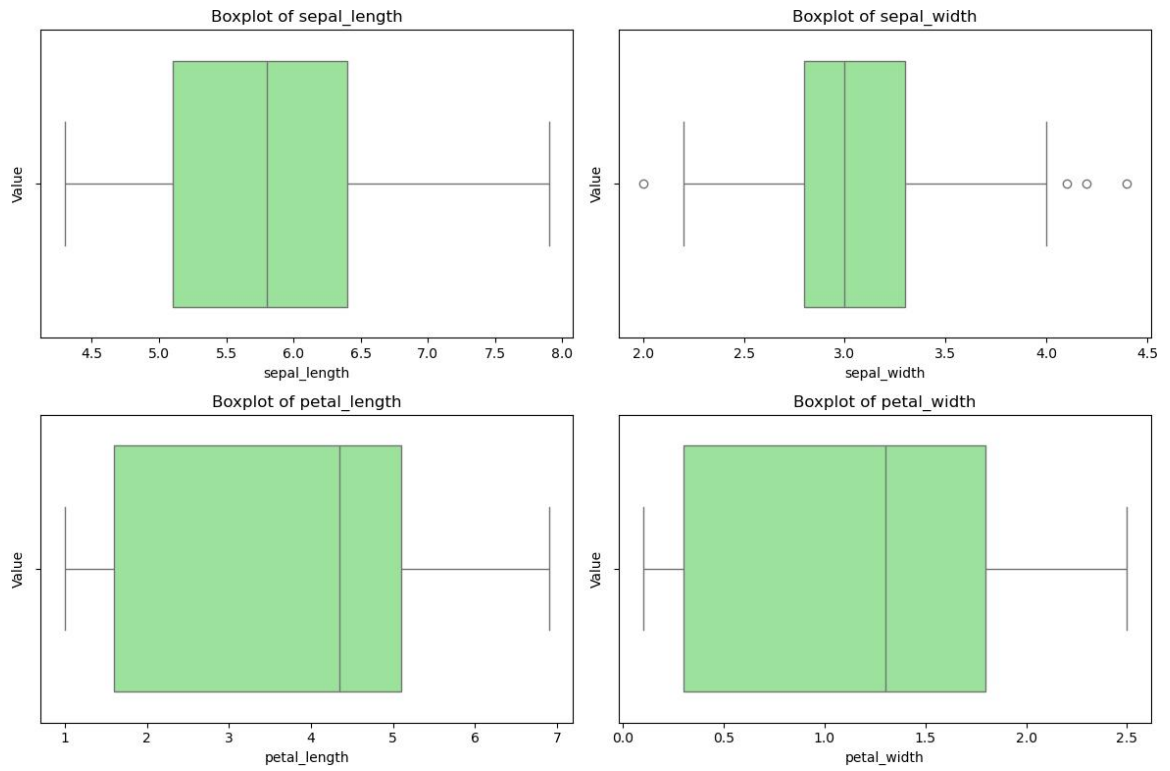


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In [23]: # Set up the plotting grid
plt.figure(figsize=(12, 8))

# Create a box plot for each feature
for i, feature in enumerate(features, 1):
    plt.subplot(2, 2, i)
    sns.boxplot(x=iris[feature], color='lightgreen')

    # Set title, x-axis label, and y-axis label
    plt.title(f'Boxplot of {feature}')
    plt.xlabel(feature)
    plt.ylabel('Value')

plt.tight_layout()
plt.show()
```



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In [ ]: Name:Neha jadhav  
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Batch:B3
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