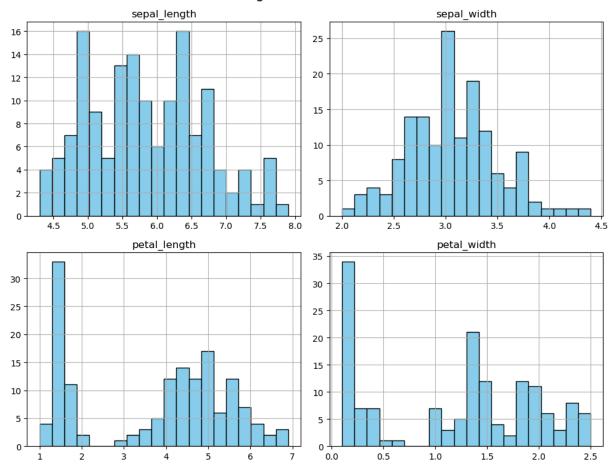
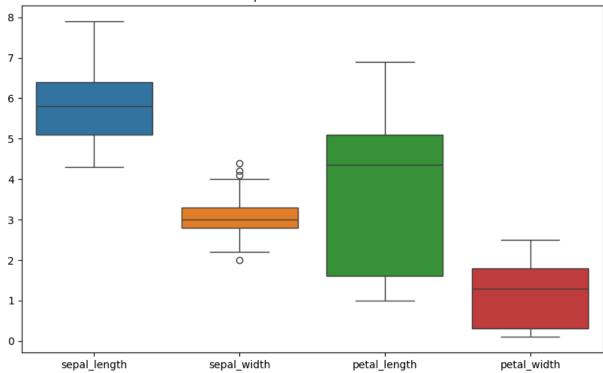
```
In [ ]: ASSIGNMENT NO:10
In [ ]: AIM: Data Visualization III
             1. List down the features and their types (e.g., numeric, nominal) available i
             2. Create a histogram for each feature in the dataset to illustrate the featur
             3. Create a box plot for each feature in the dataset.
             4. Compare distributions and identify outliers.
In [1]: import seaborn as sns
        import pandas as pd
In [5]: iris=sns.load_dataset('iris')
        print(iris.dtypes)
       sepal_length
                      float64
       sepal_width
                     float64
       petal_length float64
                     float64
       petal_width
       species
                       object
       dtype: object
In [9]: import matplotlib.pyplot as plt
        iris.hist(figsize=(10,8),bins=20,color='skyblue',edgecolor='black')
        plt.suptitle('Histogram of Iris Features', fontsize=16)
        plt.tight_layout()
        plt.show()
```

## Histogram of Iris Features

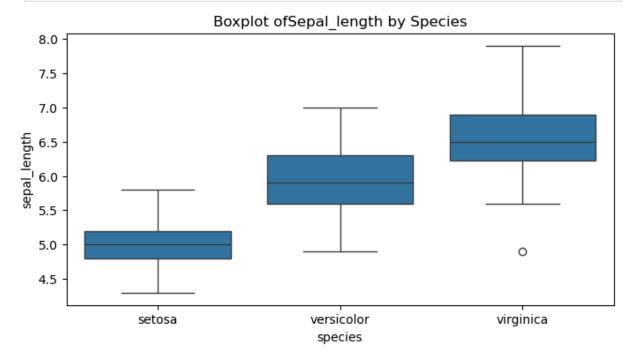


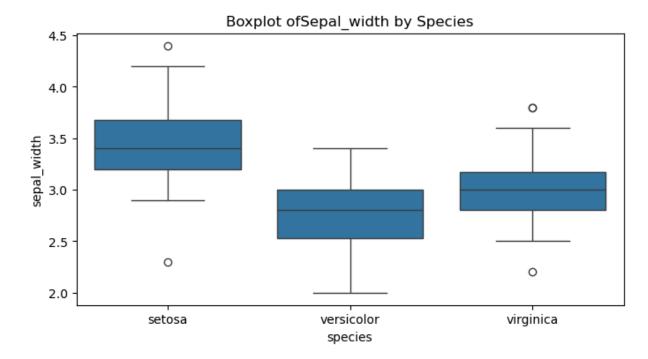
```
In [11]: plt.figure(figsize=(10,6))
    sns.boxplot(data=iris)
    plt.title('Boxplot of All Iris Features')
    plt.show()
```

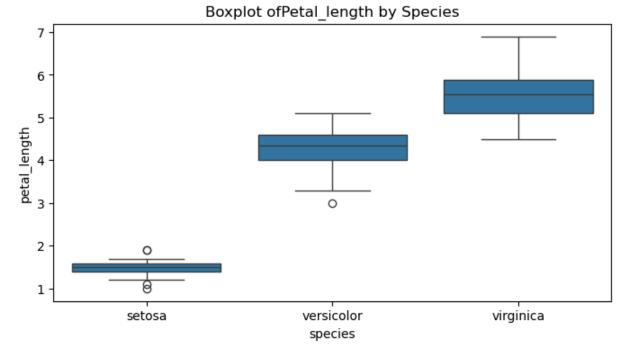
## Boxplot of All Iris Features

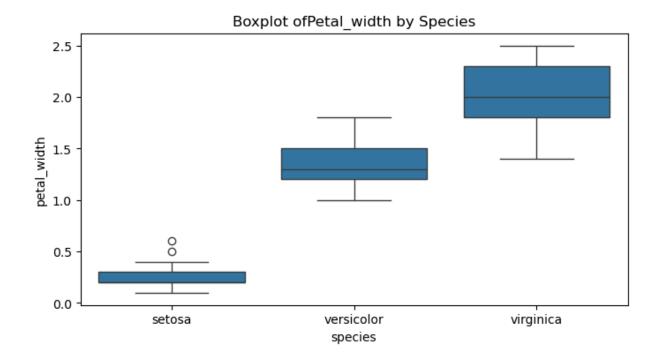


```
In [13]: for column in iris.select_dtypes(include='float'):
    plt.figure(figsize=(8,4))
    sns.boxplot(x='species',y=column,data=iris)
    plt.title(f'Boxplot of{column.capitalize()} by Species')
    plt.show()
```









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