## Assignment No 4

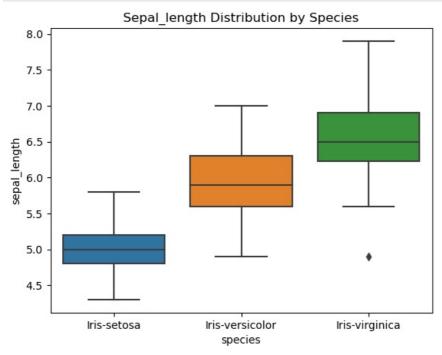
Name : Pathak Diksha Vilas

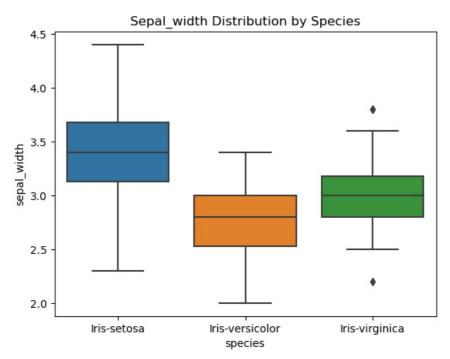
Roll NO:58

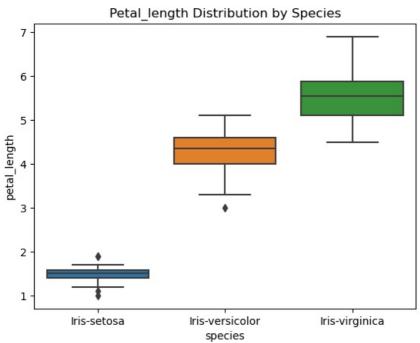
Batch 3

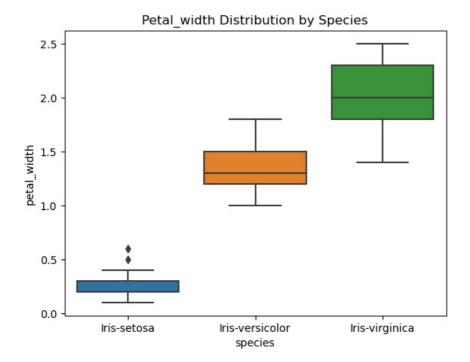
Class: T.Y.Bsc(Computer Science)

Write a Python program to create box plots to see how each feature i.e. Sepal Length, Sepal Width, Petal Length, Petal Width are distributed across the three species. (Use iris.csv dataset)









## Slip 21,24 (A)

Import dataset "iris.csv". Write a Python program to create a Bar plot to get the frequency of the three species of the Iris data.

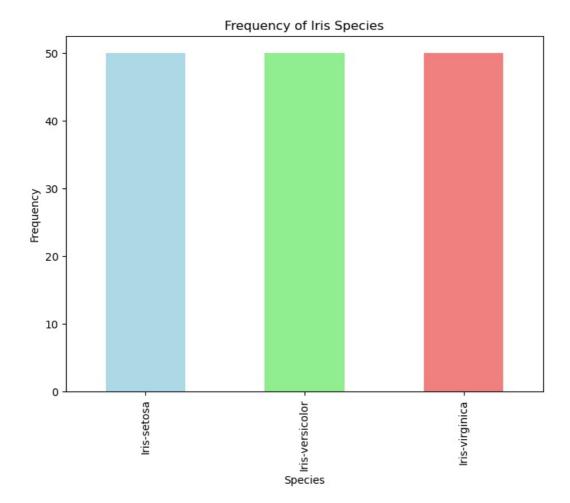
```
In [1]: import pandas as pd
import matplotlib.pyplot as plt

In [2]: df = pd.read_csv("iris.csv")
    species_counts = df['species'].value_counts()

In [3]: plt.figure(figsize=(8, 6))
    species_counts.plot(kind='bar', color=['lightblue', 'lightgreen', 'lightcoral'])

    plt.title('Frequency of Iris Species')
    plt.xlabel('Species')
    plt.ylabel('Frequency')

    plt.show()
```



## Slip 1,11 (A)

Write a Python program to create a Pie plot to get the frequency of the three species of the Iris data (Use iris.csv)

```
In [4]: import pandas as pd
import matplotlib.pyplot as plt

In [5]: df = pd.read_csv("iris.csv")

In [6]: species_counts = df['species'].value_counts()

In [7]: plt.pie(species_counts, labels=species_counts.index, autopct='%1.1f%')
    plt.title('Frequency of Iris Species')
    plt.show()
```

## Frequency of Iris Species

