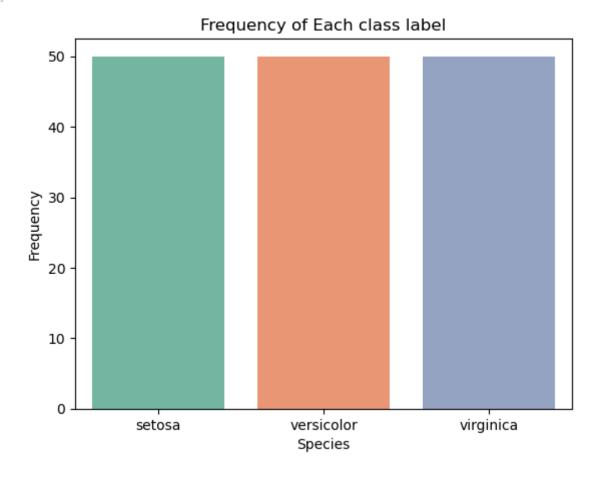
## Q5. Taking Iris data, plot the following with proper legend and axis labels: (Download IRIS data from: https://archive.ics.uci.edu/ml/datasets/iris or import it from sklearn.datasets)

```
In [10]:
         import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as sns
         iris = sns.load dataset('iris')
```

a. Plot bar chart to show the frequency of each class label in the data.

```
sns.countplot(x='species',data=iris,palette='Set2')
In [11]:
         plt.xlabel('Species')
         plt.ylabel('Frequency')
         plt.title('Frequency of Each class label')
```

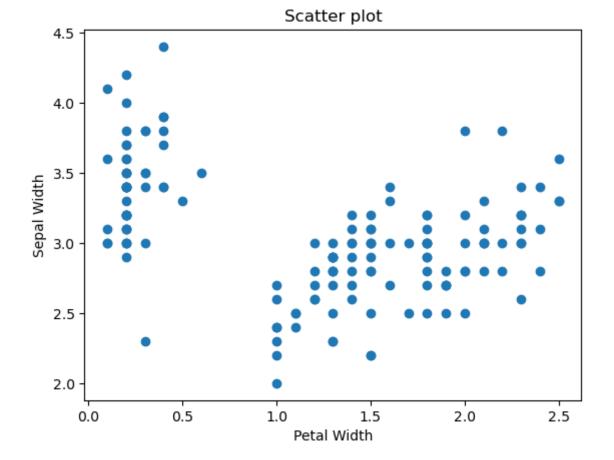
Text(0.5, 1.0, 'Frequency of Each class label') Out[11]:



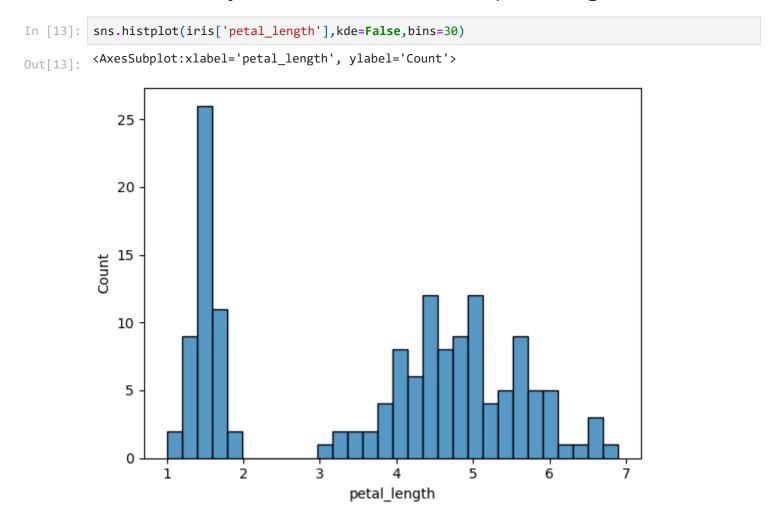
b. Draw a scatter plot for Petal width vs sepal width.

```
In [12]:
         plt.scatter(x='petal_width',y='sepal_width',data=iris)
          plt.xlabel('Petal Width')
         plt.ylabel('Sepal Width')
         plt.title("Scatter plot")
```

Text(0.5, 1.0, 'Scatter plot')



## c. Plot density distribution for feature petal length



d. Use a pair plot to show pairwise bivariate distribution in the Iris Dataset.

In [15]: sns.pairplot(iris,hue='species',palette='coolwarm')

Out[15]: <seaborn.axisgrid.PairGrid at 0x225675c35b0>

