

```

import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore", category=FutureWarning)
warnings.filterwarnings("ignore", category=UserWarning)
df=pd.read_csv('/kaggle/input/irissss/Iris.csv')
df.head()

   Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
Species
0   1           5.1          3.5          1.4          0.2  Iris-
setosa
1   2           4.9          3.0          1.4          0.2  Iris-
setosa
2   3           4.7          3.2          1.3          0.2  Iris-
setosa
3   4           4.6          3.1          1.5          0.2  Iris-
setosa
4   5           5.0          3.6          1.4          0.2  Iris-
setosa

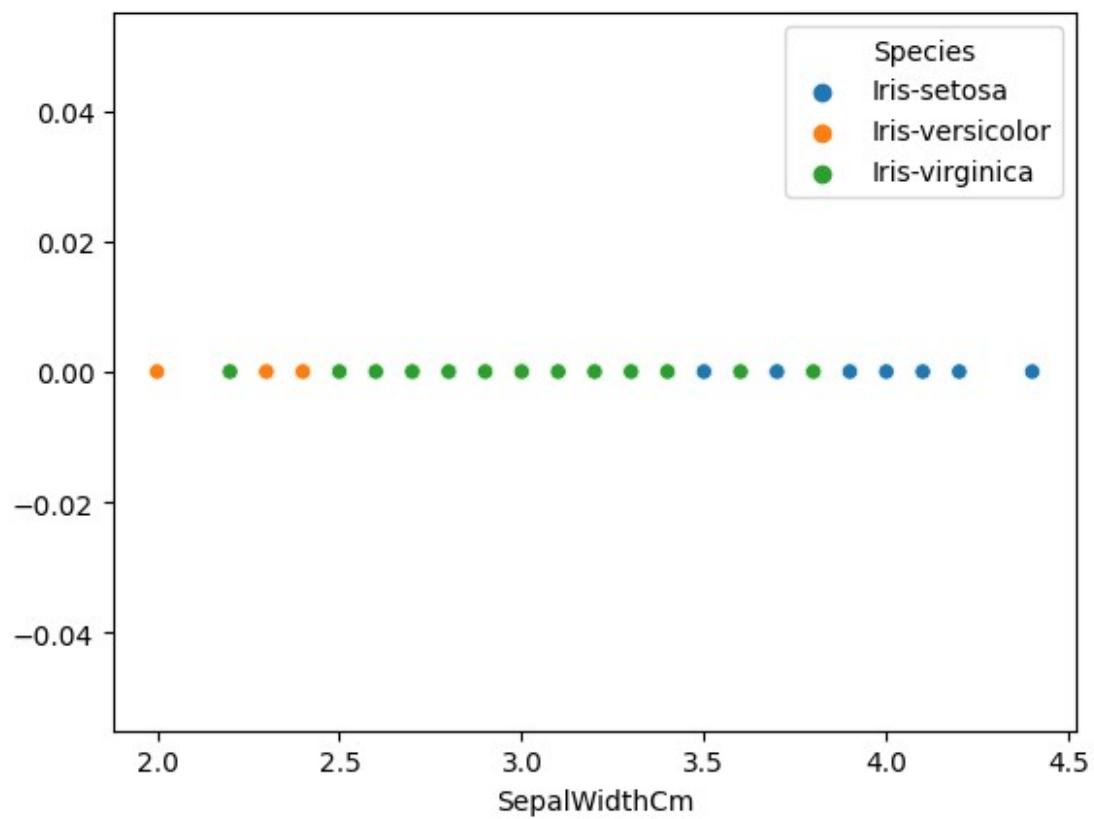
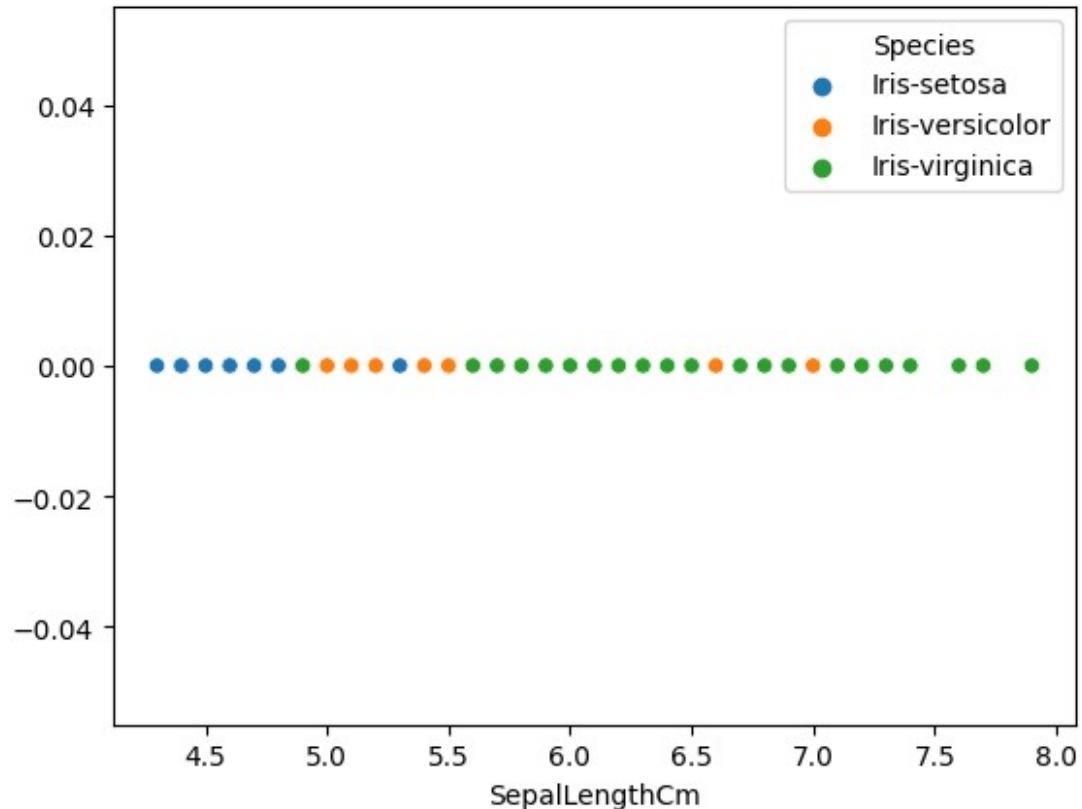
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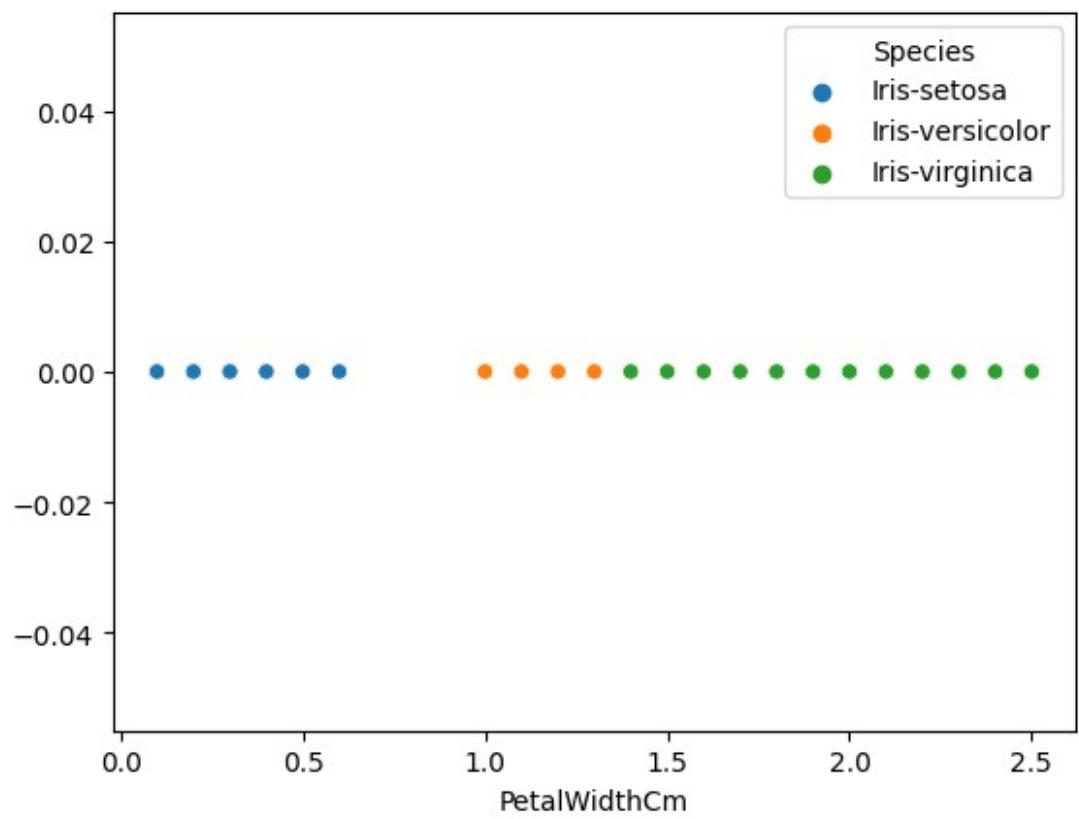
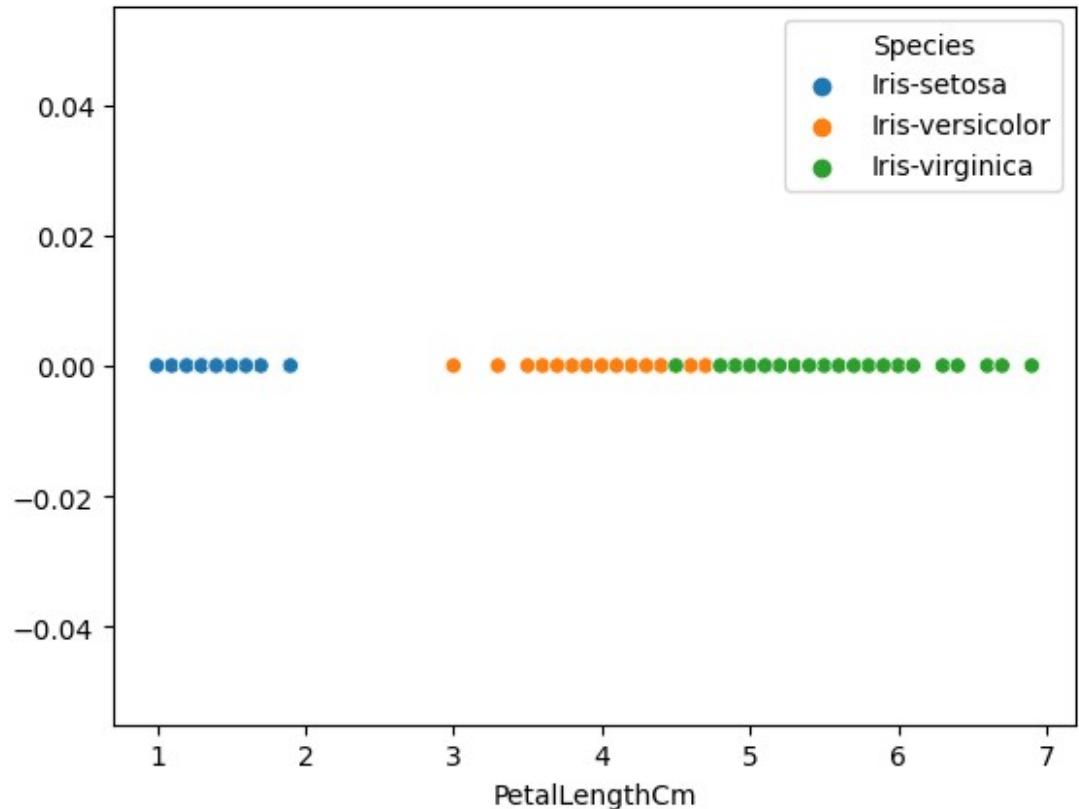
## PERFORMING UNIVARIATE ANALYSIS

```

sns.scatterplot(data=df, x="SepalLengthCm", y=0, hue="Species")
plt.show()
sns.scatterplot(data=df, x="SepalWidthCm", y=0, hue="Species")
plt.show()
sns.scatterplot(data=df, x="PetalLengthCm", y=0, hue="Species")
plt.show()
sns.scatterplot(data=df, x="PetalWidthCm", y=0, hue="Species")
plt.show()

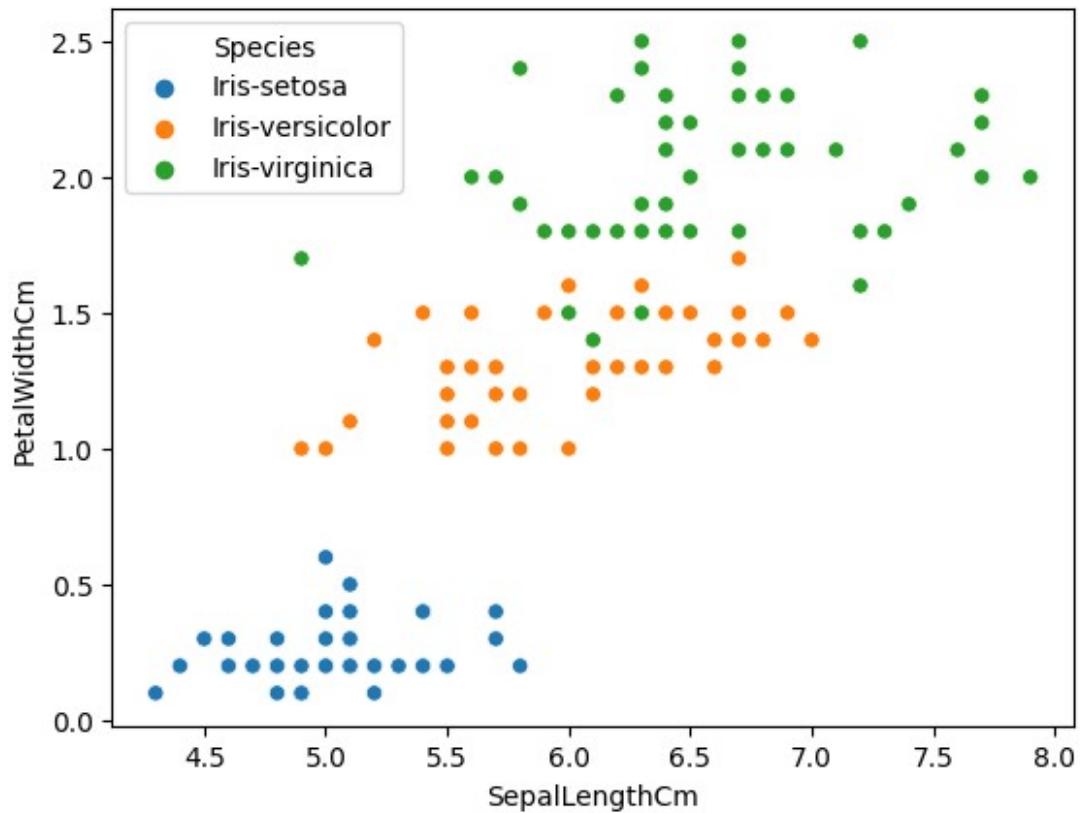
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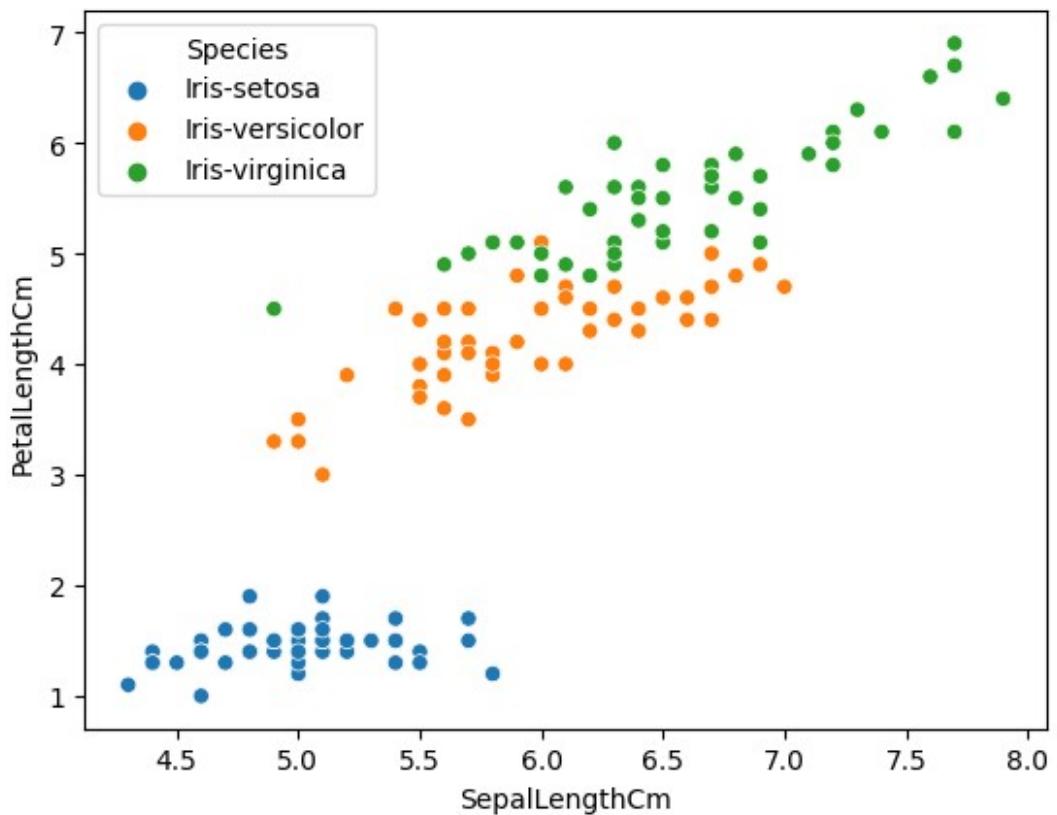
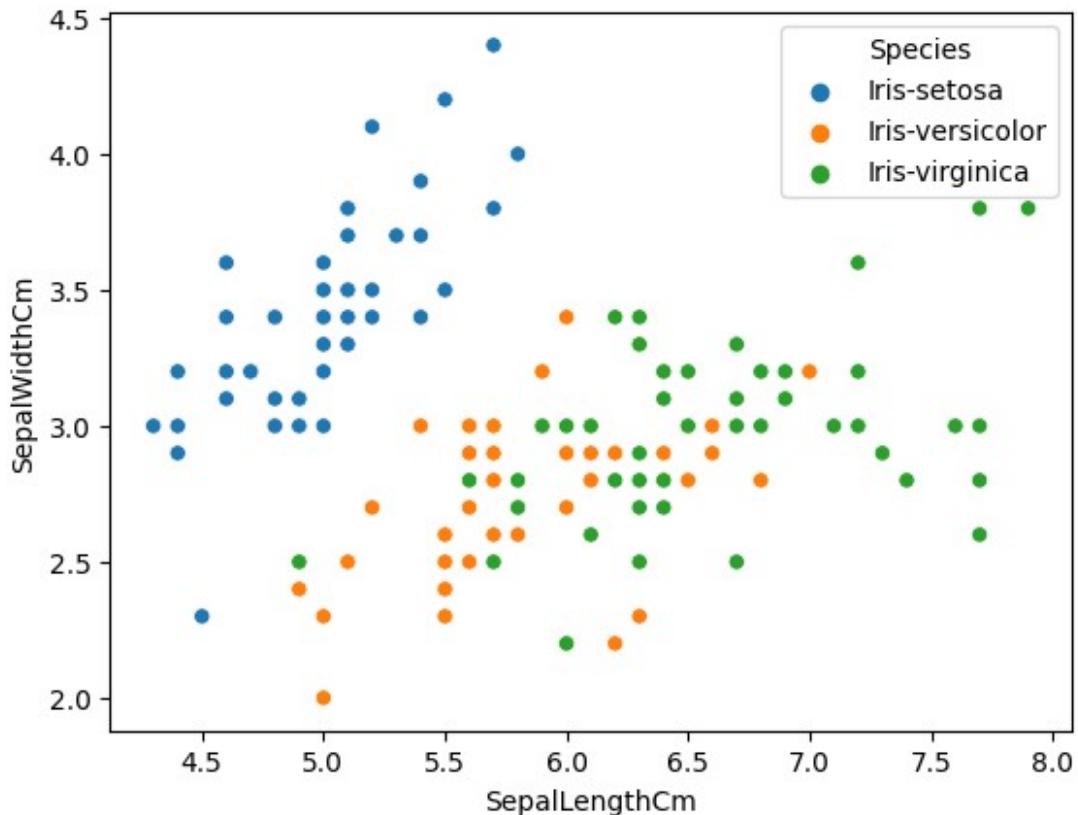


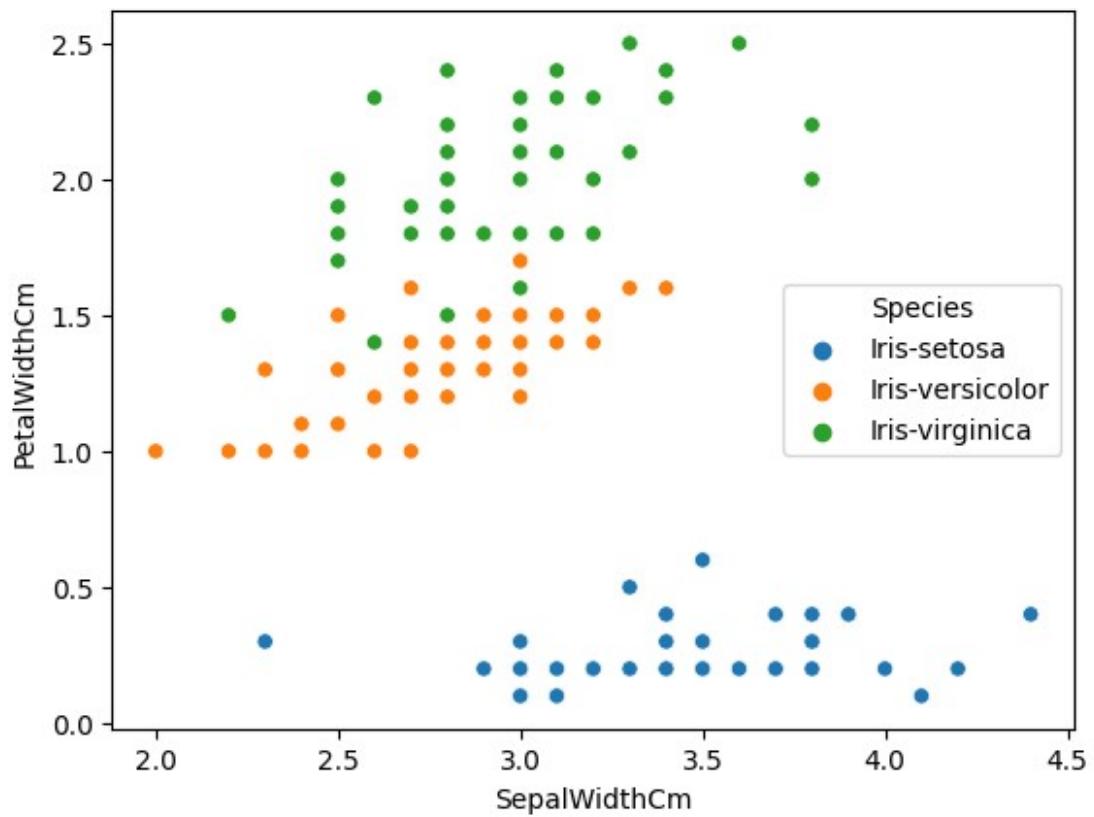
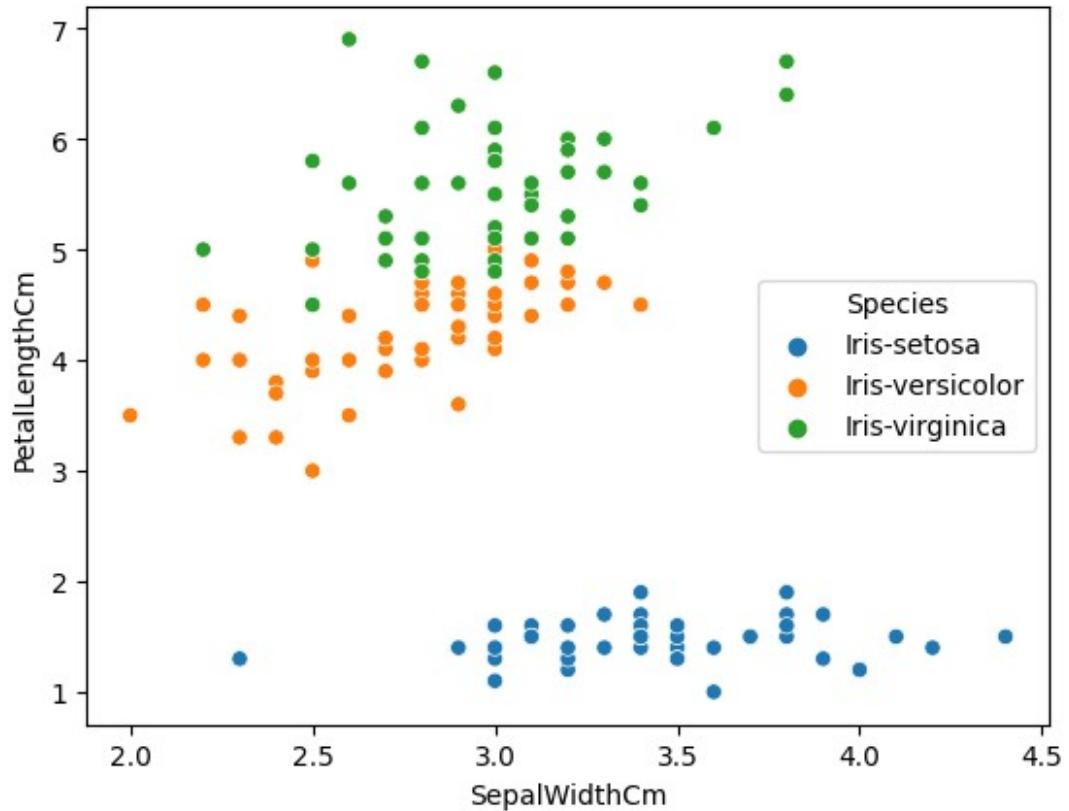


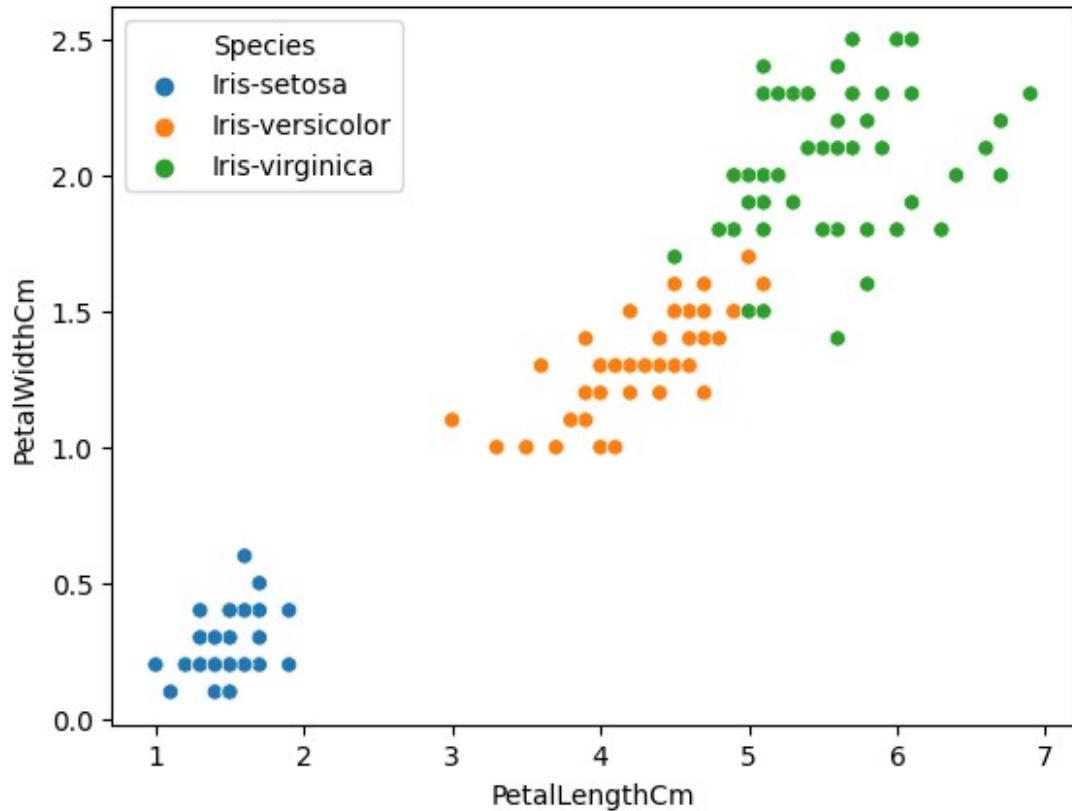
## PERFORMING BIVARIATE ANALYSIS

```
sns.scatterplot(data=df, x="SepalLengthCm", y='PetalWidthCm',
hue="Species")
plt.show()
sns.scatterplot(data=df, x="SepalLengthCm", y='SepalWidthCm',
hue="Species")
plt.show()
sns.scatterplot(data=df, x="SepalLengthCm", y='PetalLengthCm',
hue="Species")
plt.show()
sns.scatterplot(data=df, x="SepalWidthCm", y='PetalLengthCm',
hue="Species")
plt.show()
sns.scatterplot(data=df, x="SepalWidthCm", y='PetalWidthCm',
hue="Species")
plt.show()
sns.scatterplot(data=df, x="PetalLengthCm", y='PetalWidthCm',
hue="Species")
plt.show()
```









## PERFORMING MULTIVARIATE ANALYSIS

```
df=df.drop('Id',axis=1)
sns.pairplot(df,diag_kind='kde',hue='Species')
plt.show()
```

