

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

from google.colab import drive
drive.mount('/content/drive')

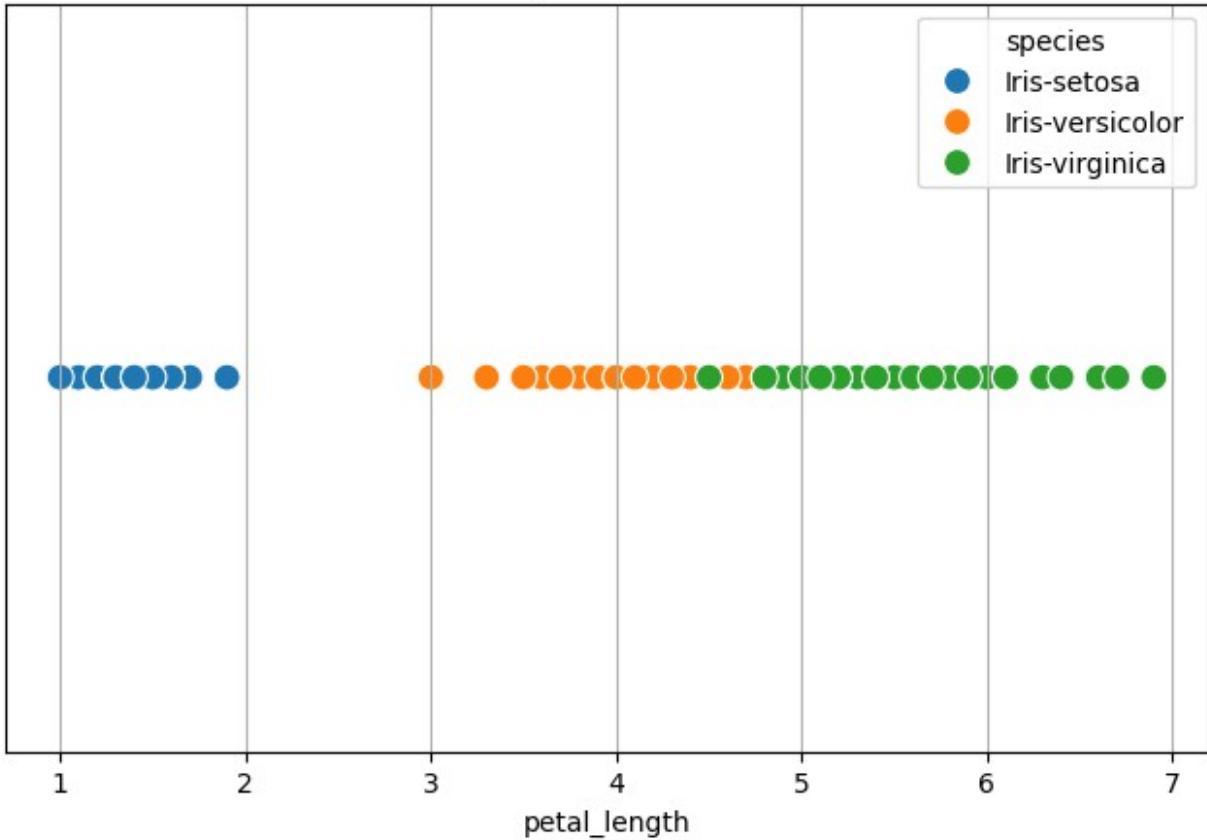
Mounted at /content/drive

file_path='/content/drive/My Drive/MACHINE LEARNING/IRIS - Copy.csv'
df=pd.read_csv(file_path)
print(df.head())

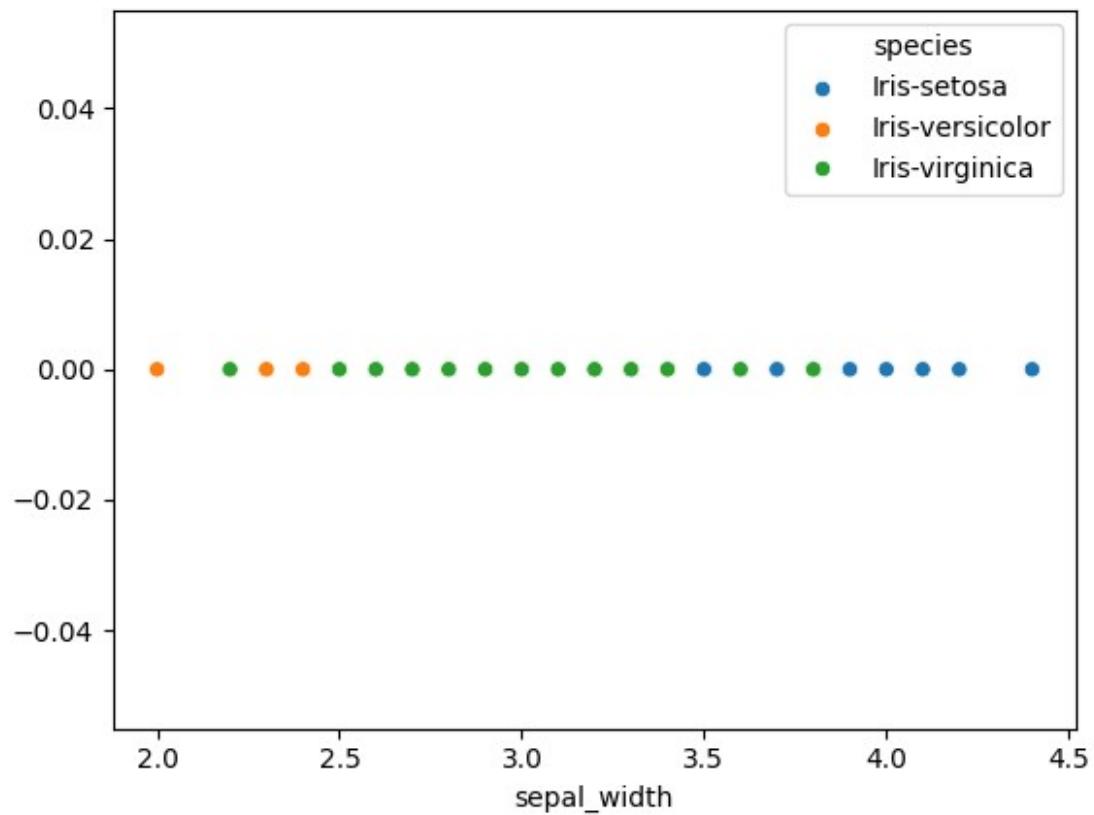
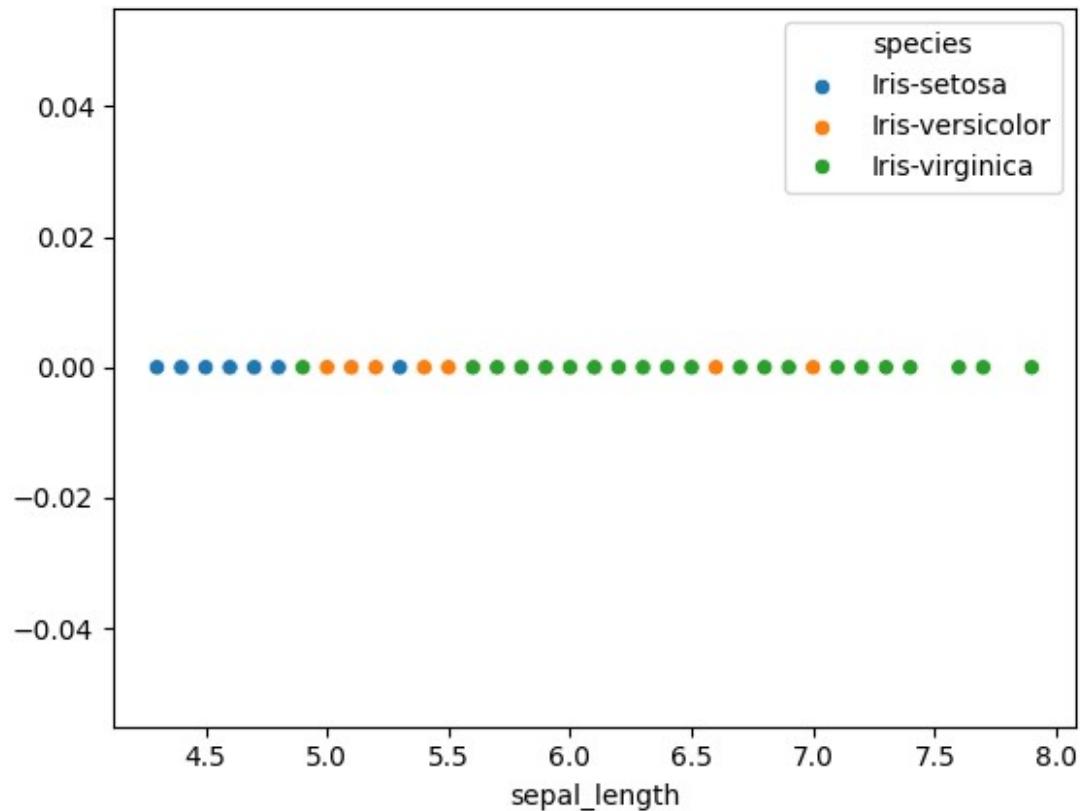
  sepal_length  sepal_width  petal_length  petal_width      species
0          5.1         3.5          1.4         0.2  Iris-setosa
1          4.9         3.0          1.4         0.2  Iris-setosa
2          4.7         3.2          1.3         0.2  Iris-setosa
3          4.6         3.1          1.5         0.2  Iris-setosa
4          5.0         3.6          1.4         0.2  Iris-setosa

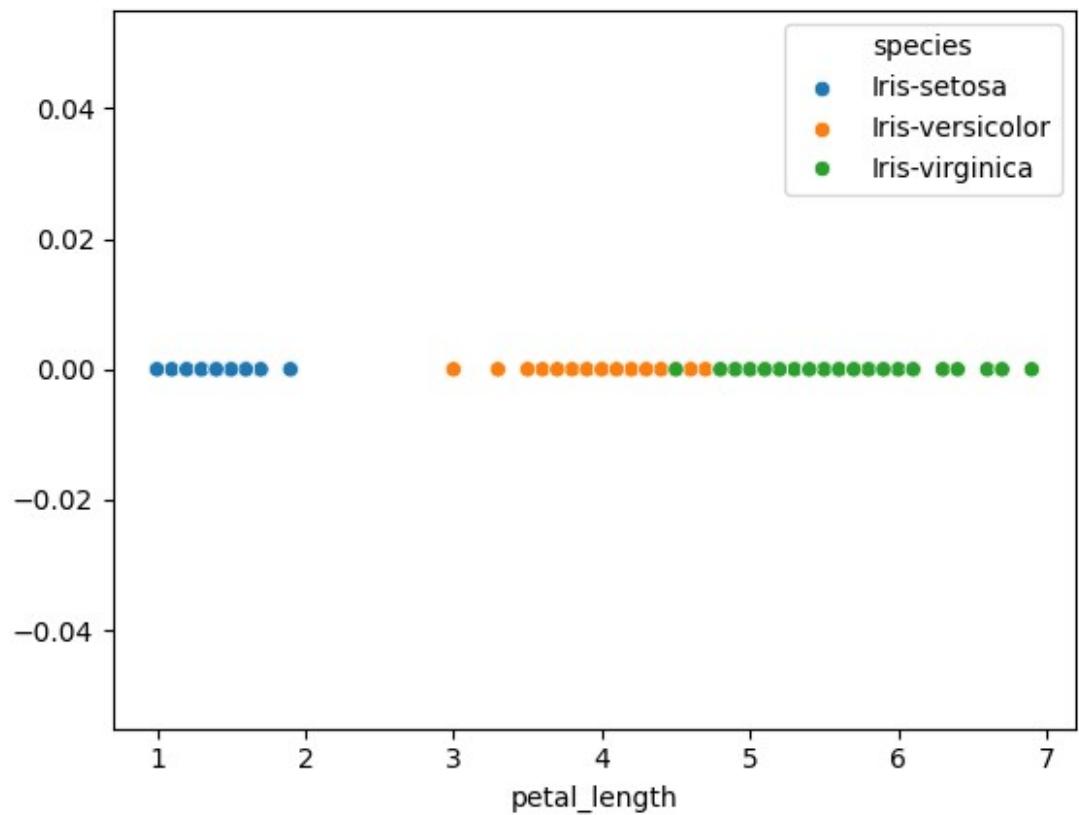
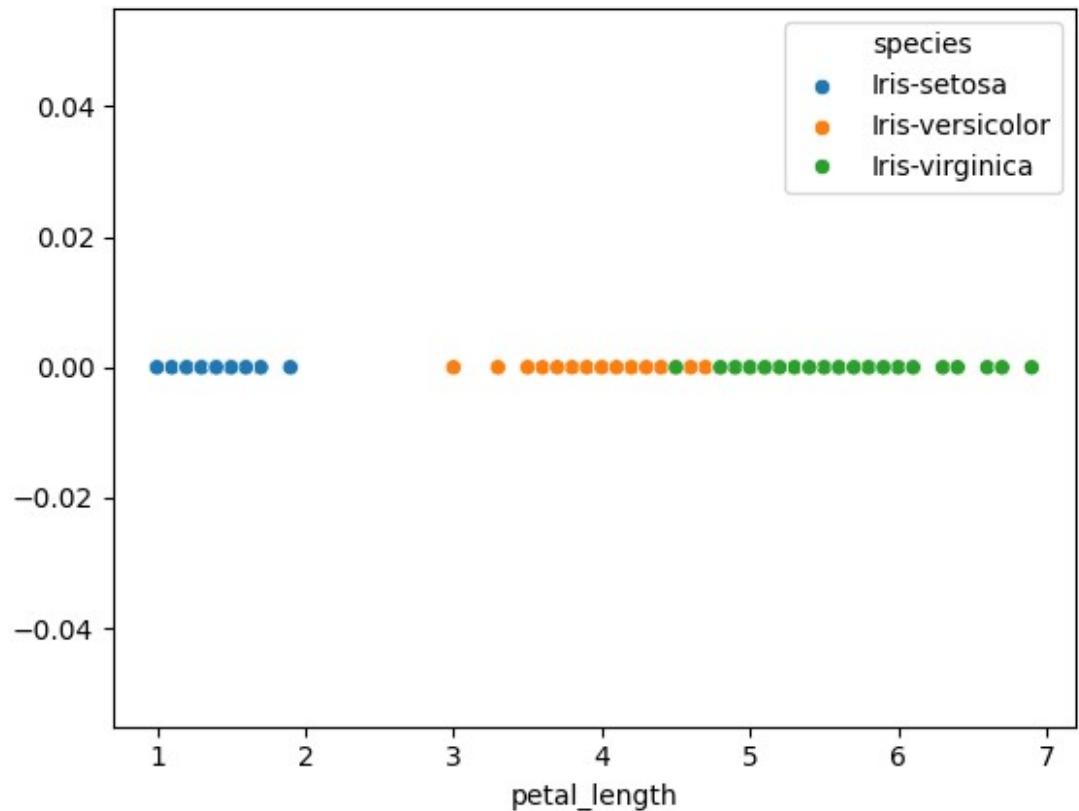
plt.figure(figsize=(8,5))
sns.scatterplot(x=df ['petal_length'], y=[0]*len (df),hue=df
['species'], s = 100 )
plt.yticks([])
plt.xlabel("petal_length")
plt.title("Univariate Analysis of iris flower dataset")
plt.legend (title="species")
plt.grid(True)
plt.show()
```

Univariate Analysis of iris flower dataset

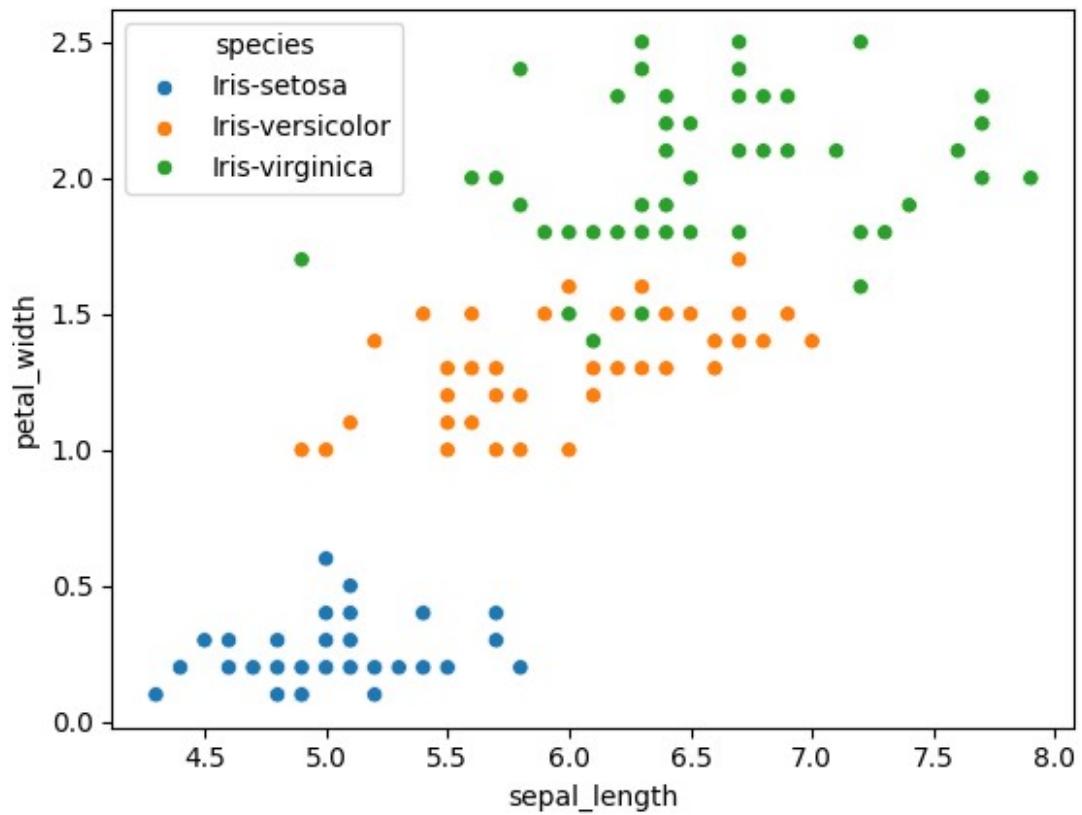


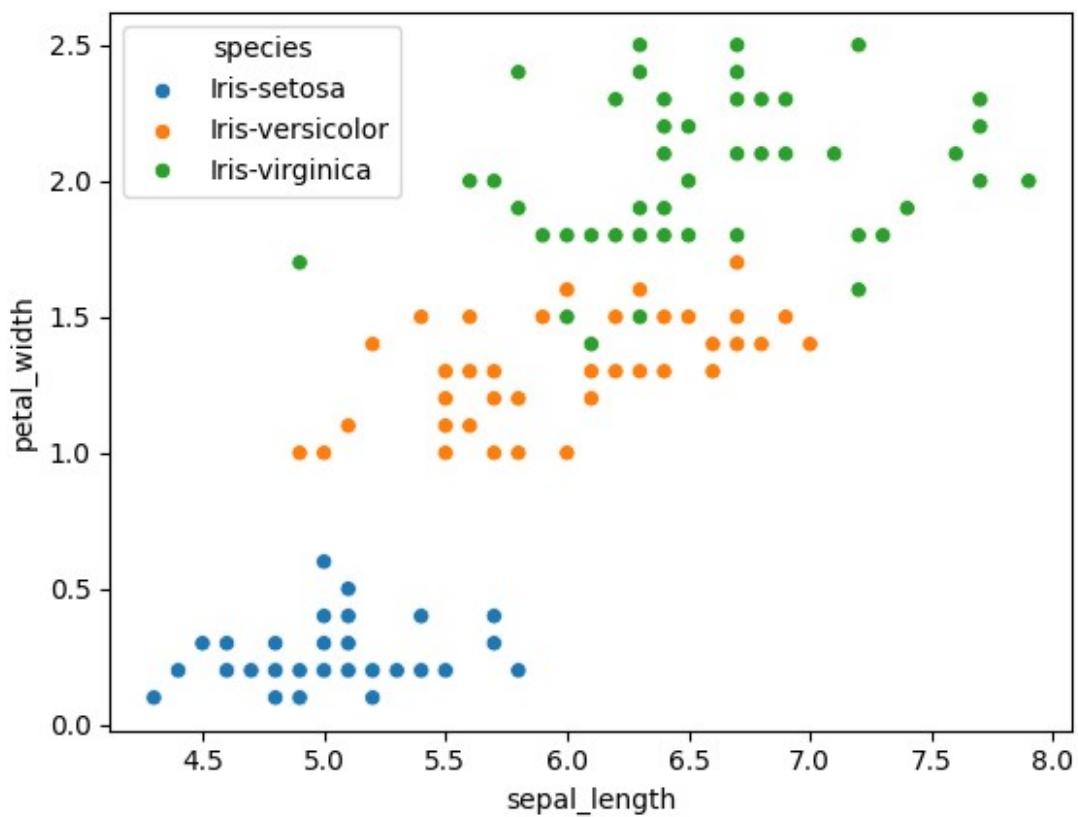
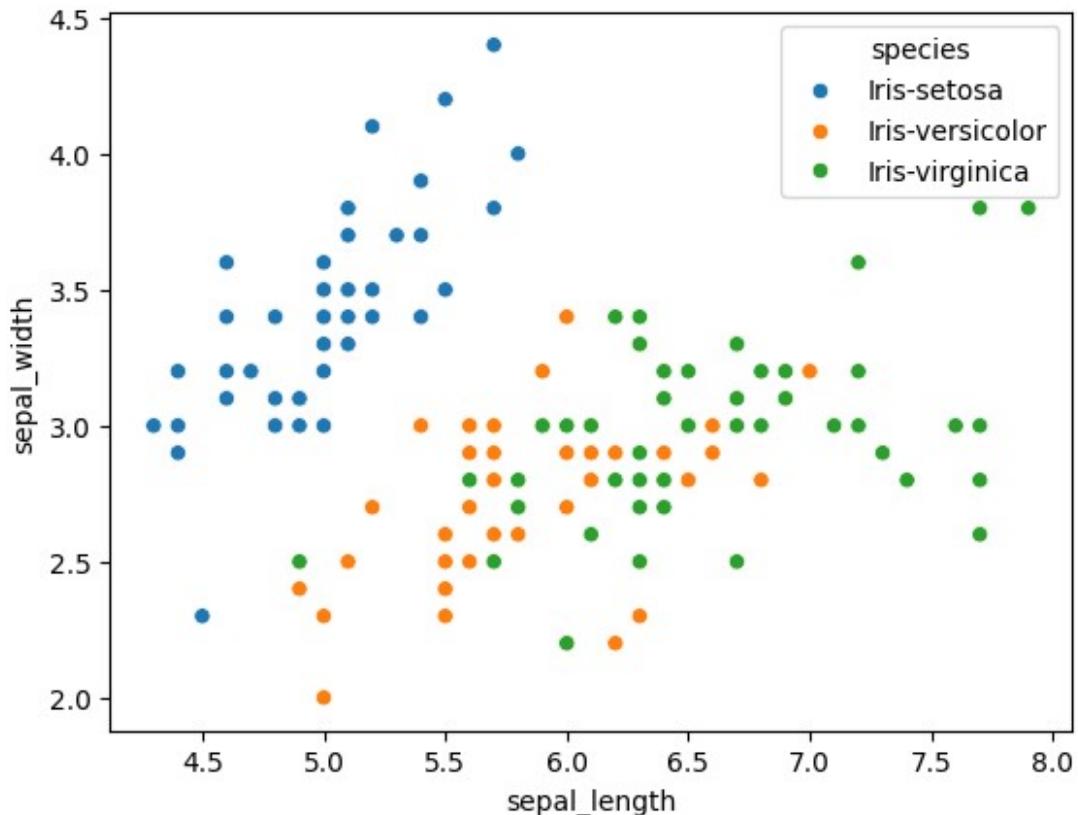
```
sns.scatterplot(data=df,x="sepal_length",y=0,hue="species")
plt.show()
sns.scatterplot(data=df,x="sepal_width",y=0,hue="species")
plt.show()
sns.scatterplot(data=df,x="petal_length",y=0,hue="species")
plt.show()
sns.scatterplot(data=df,x="petal_length",y=0,hue="species")
plt.show()
```

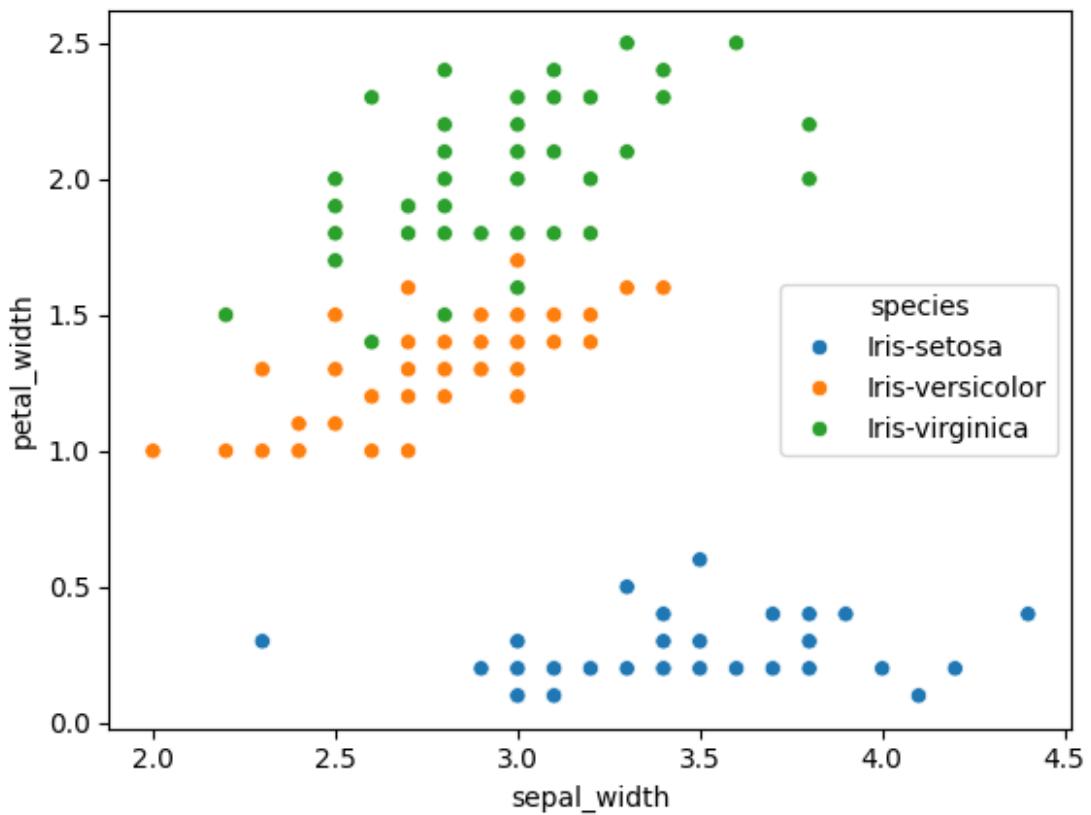
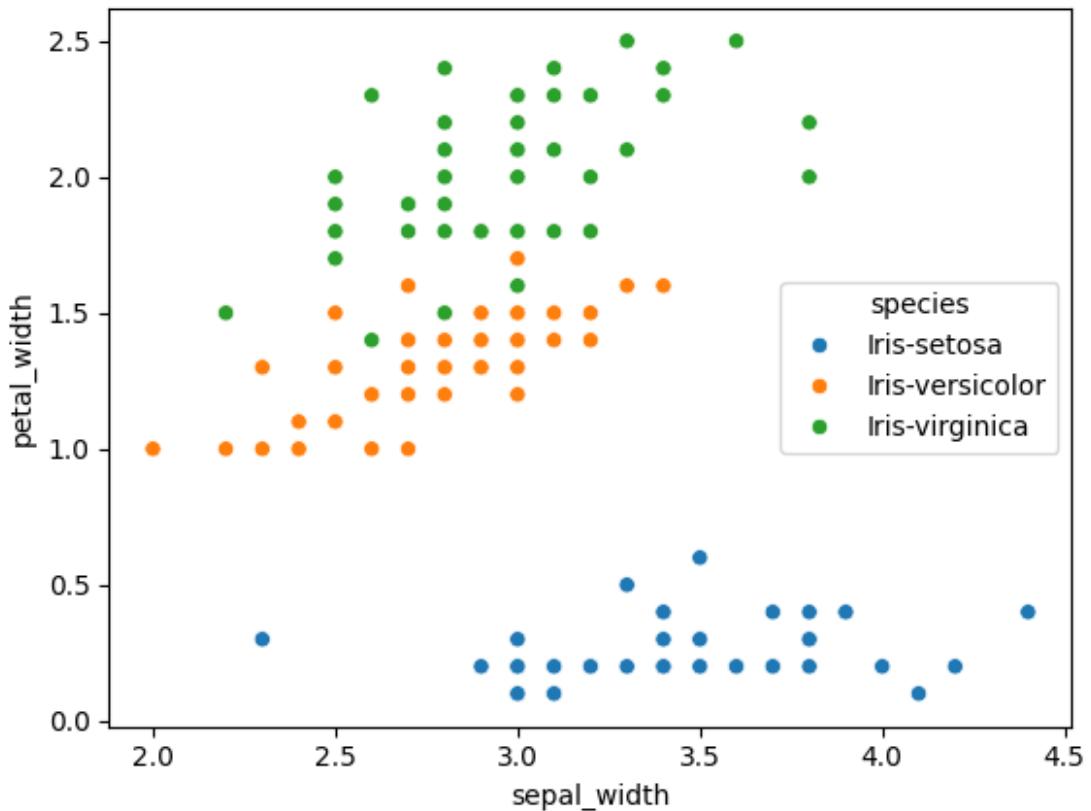


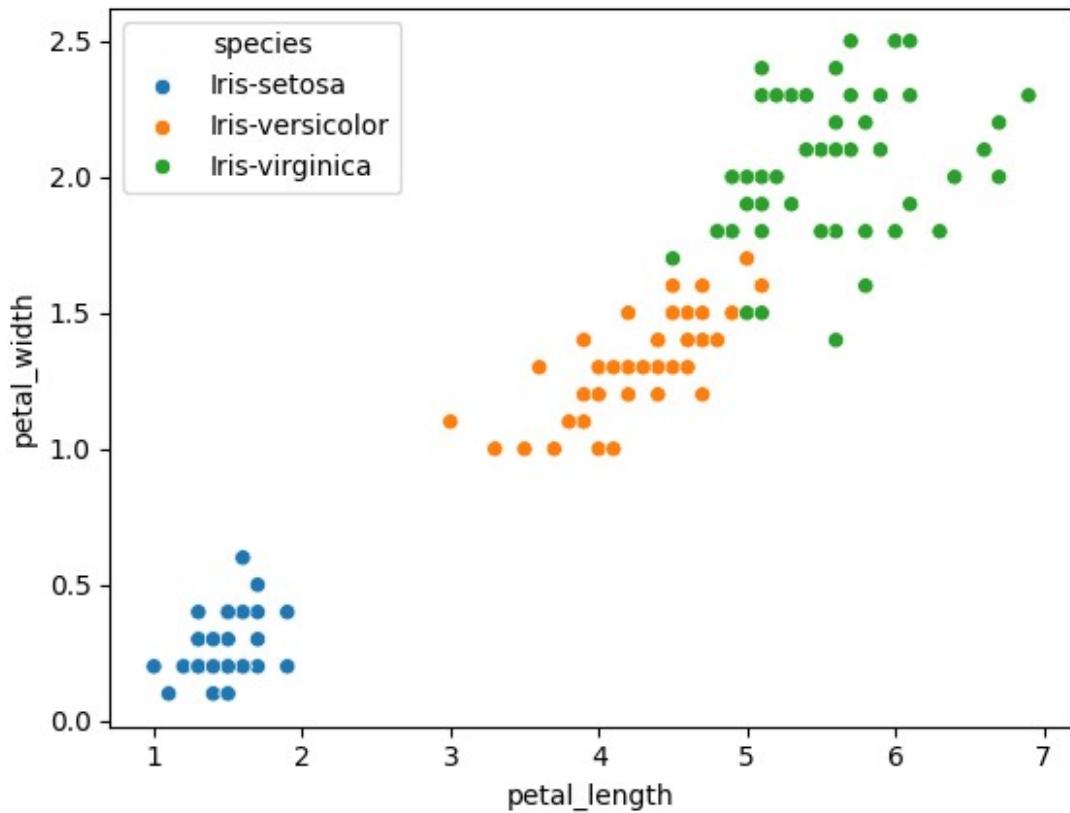


```
sns.scatterplot(data=df,x="sepal_length",y='petal_width',hue="species")
plt.show()
sns.scatterplot(data=df,x="sepal_length",y='sepal_width',hue="species")
plt.show()
sns.scatterplot(data=df,x="sepal_length",y='petal_width',hue="species")
plt.show()
sns.scatterplot(data=df,x="sepal_width",y='petal_width',hue="species")
plt.show()
sns.scatterplot(data=df,x="sepal_width",y='petal_width',hue="species")
plt.show()
sns.scatterplot(data=df,x="petal_length",y='petal_width',hue="species")
plt.show()
```









```
sns.pairplot(df,diag_kind='kde',hue="species")
plt.show()
```

