

```
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')
```

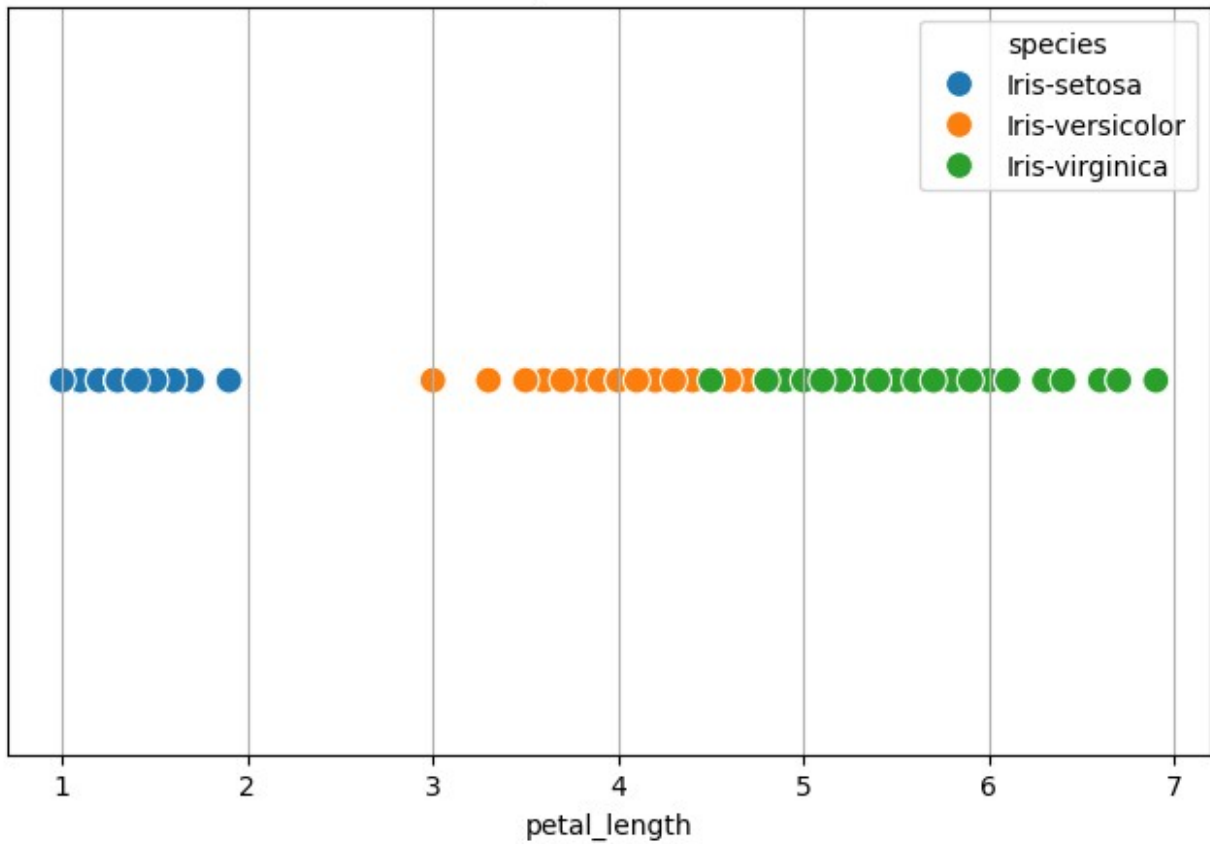
Mounted at /content/drive

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

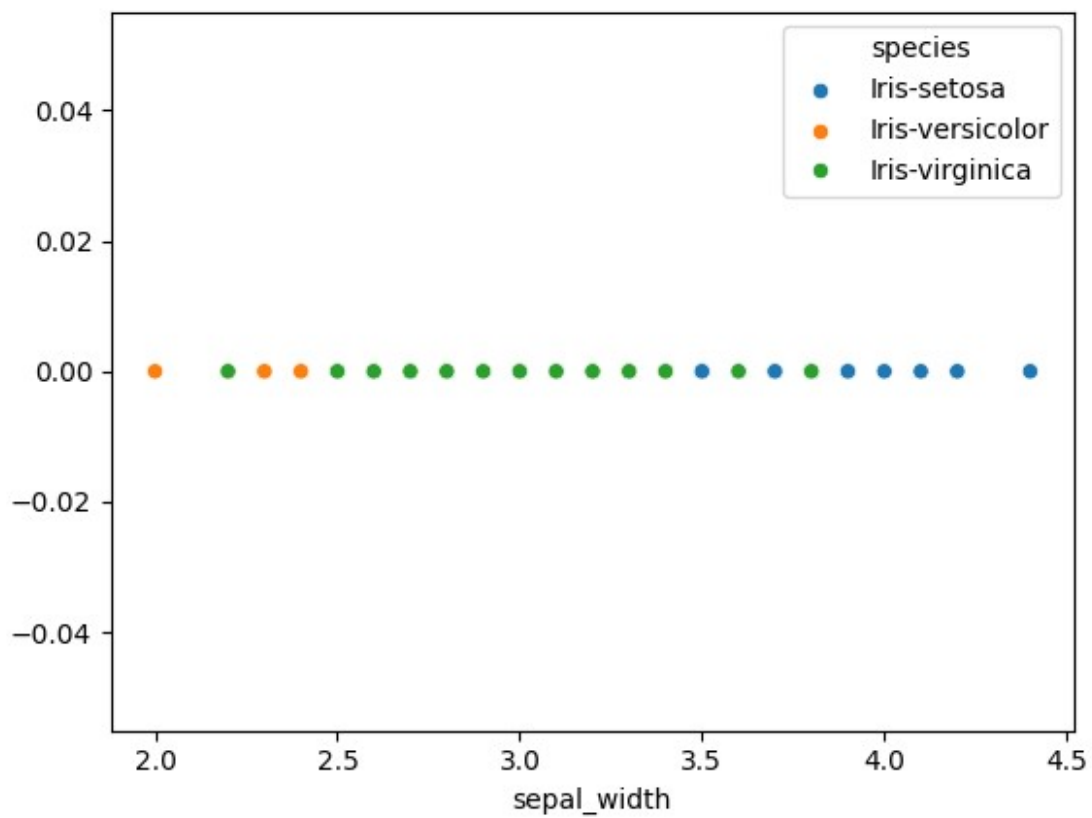
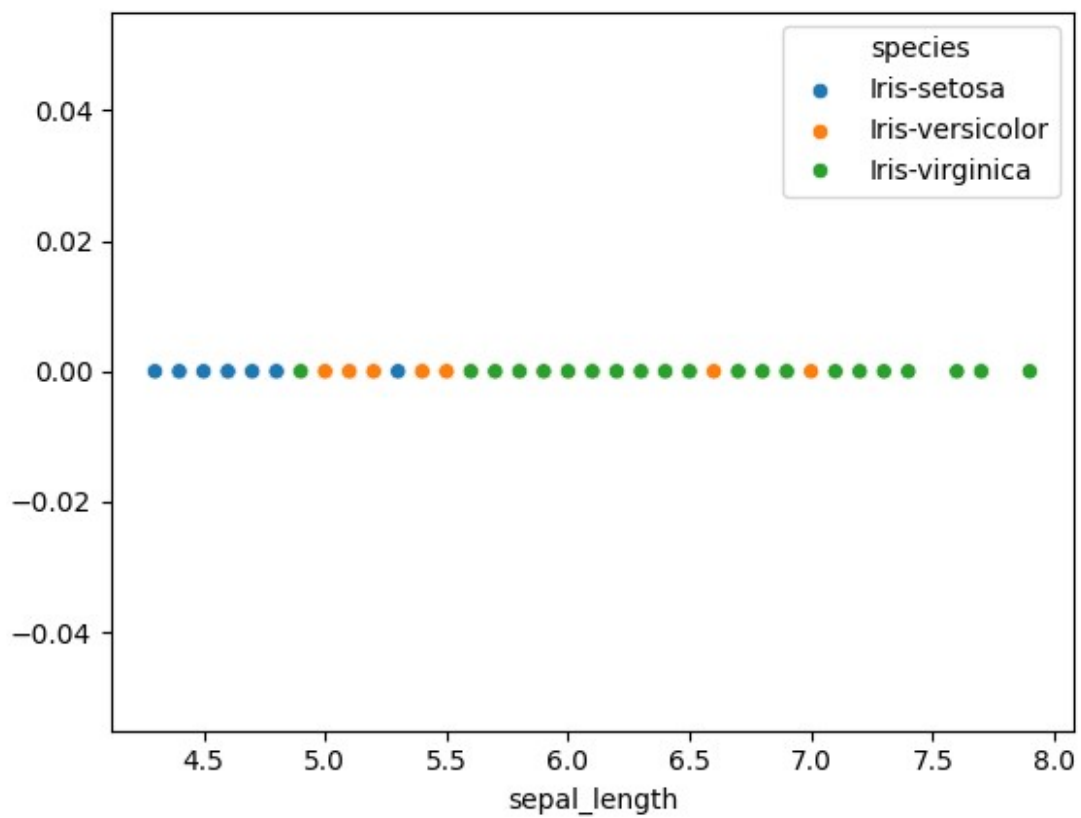
	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	Iris-setosa
1	4.9	3.0	1.4	0.2	Iris-setosa
2	4.7	3.2	1.3	0.2	Iris-setosa
3	4.6	3.1	1.5	0.2	Iris-setosa
4	5.0	3.6	1.4	0.2	Iris-setosa

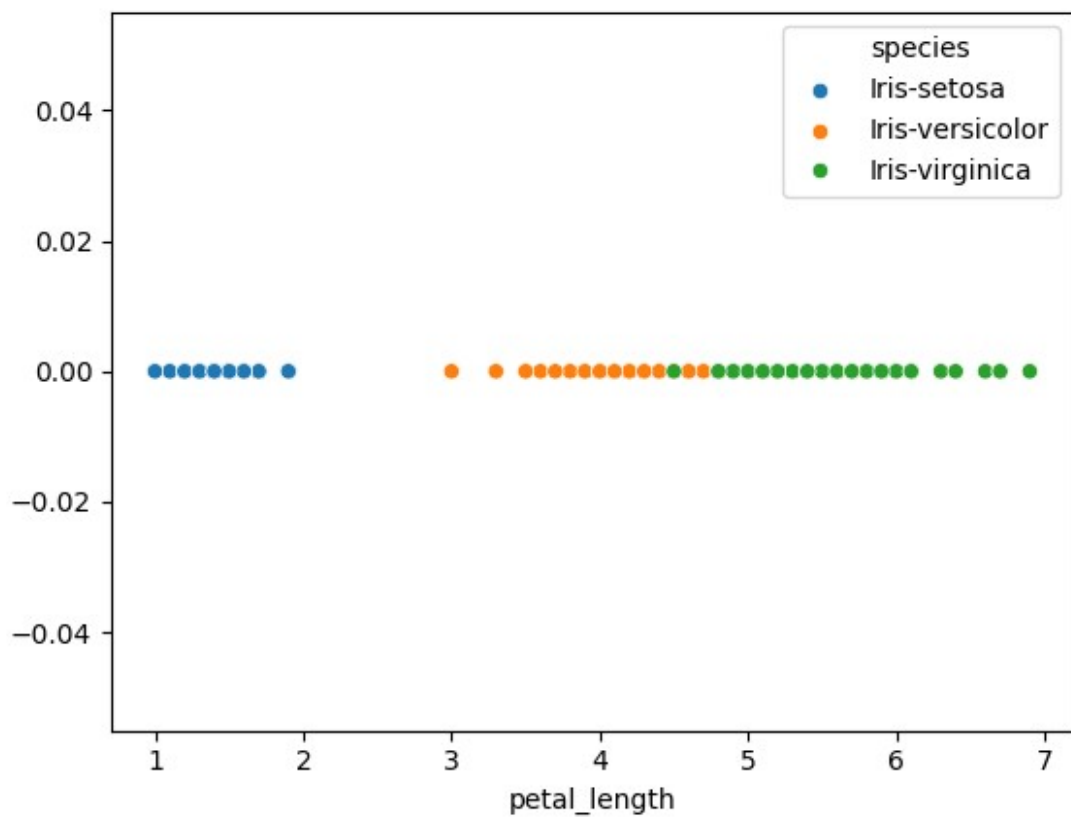
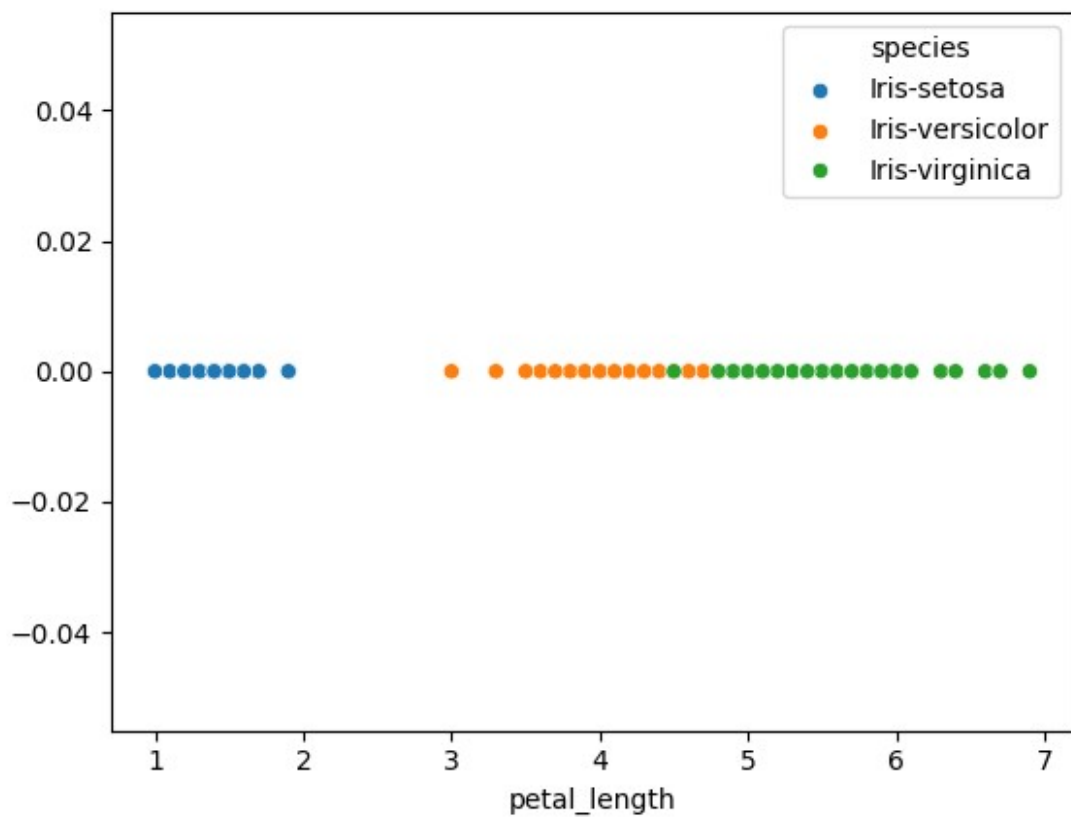
```
plt.figure(figsize=(8,5))
sns.scatterplot(x=df ['petal_length'], y=[0]*len (df),hue=df
['species'], s = 100 )
plt.yticks([])
plt.xlabel("petal_length")
plt.title("Univariate Analysis of iris flower dataset")
plt.legend (title="species")
plt.grid(True)
plt.show()
```

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()
```

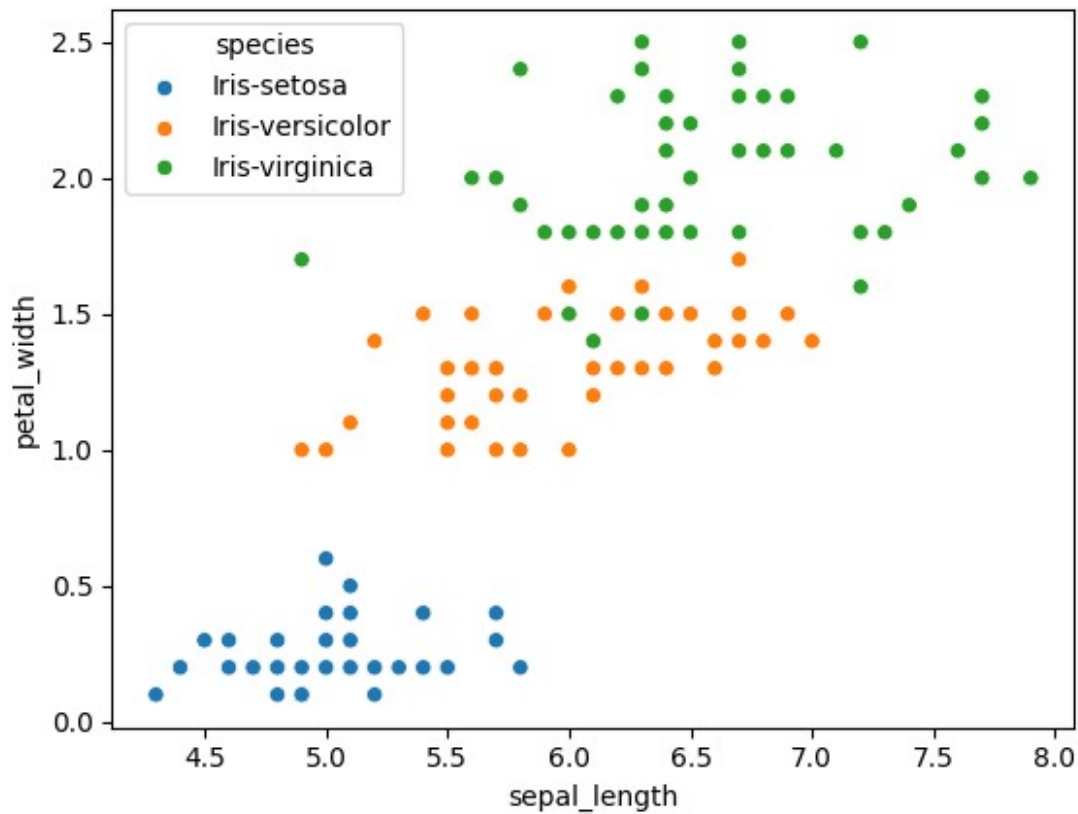


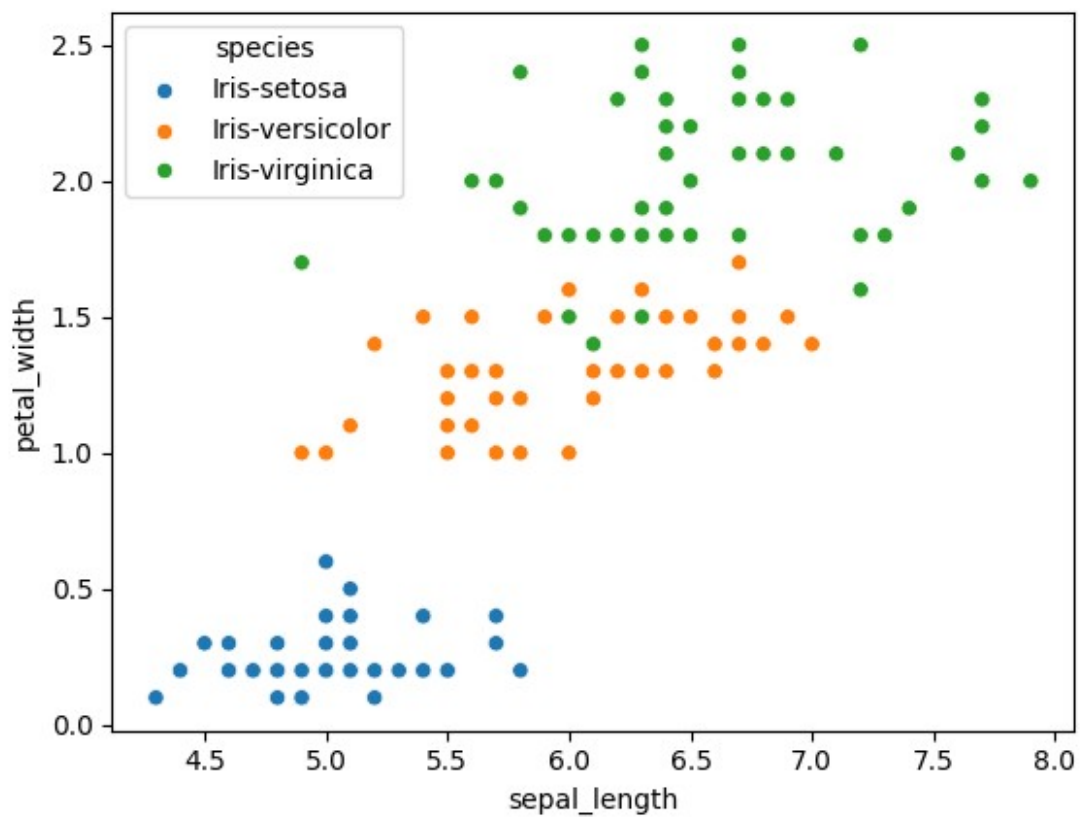
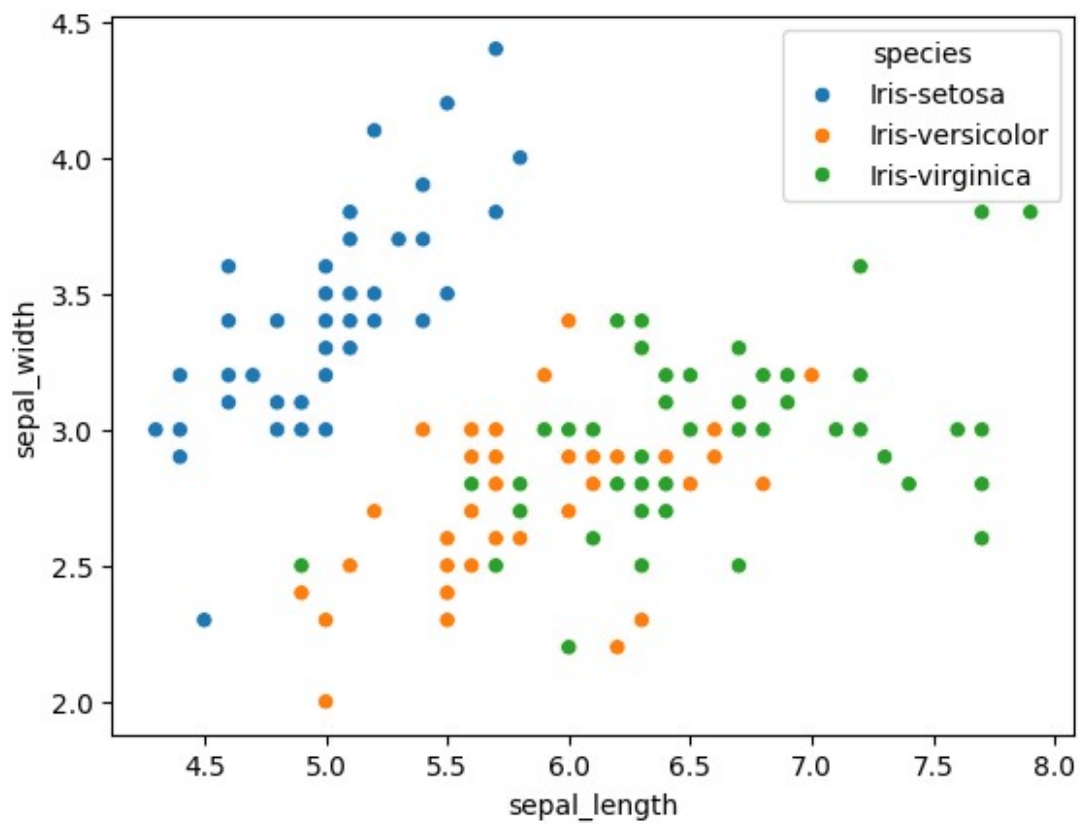


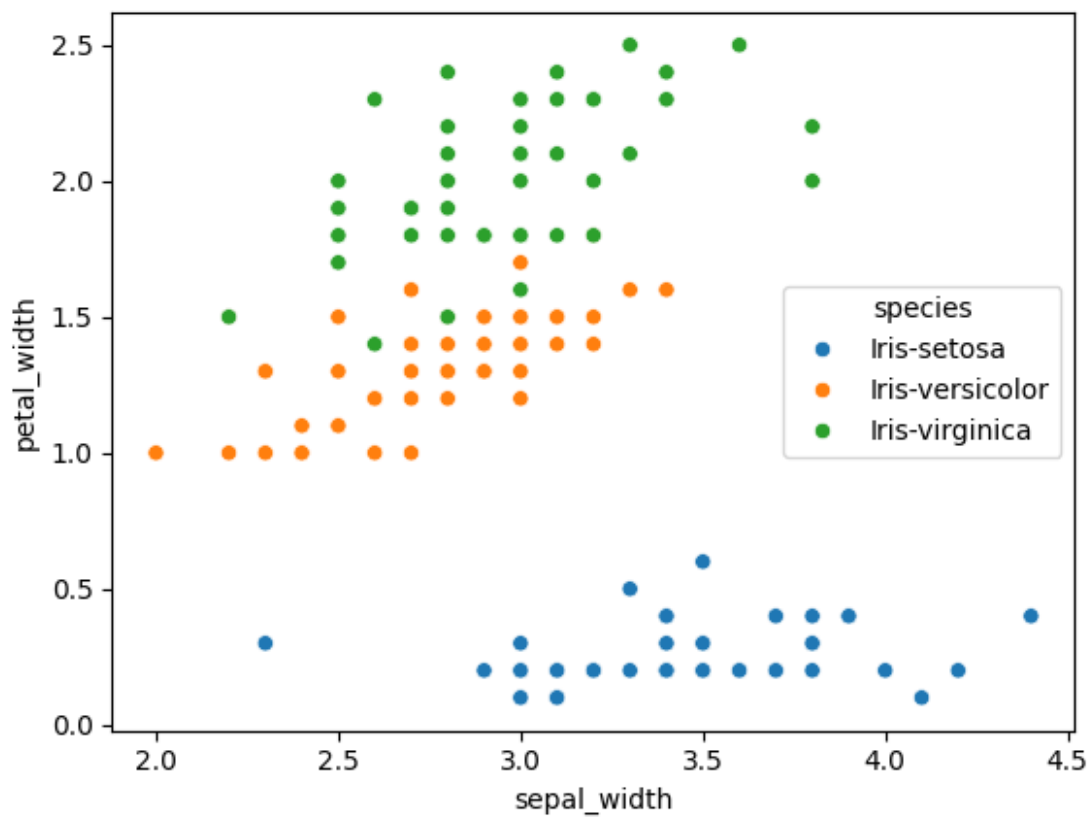
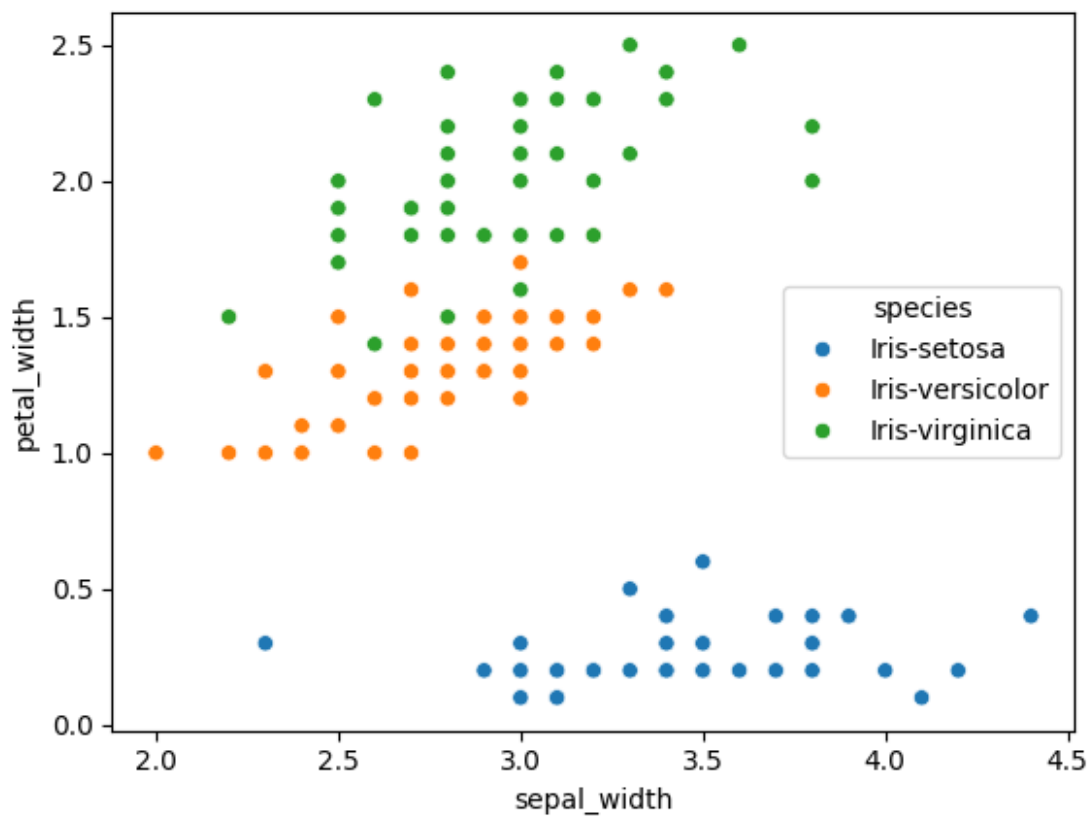
```

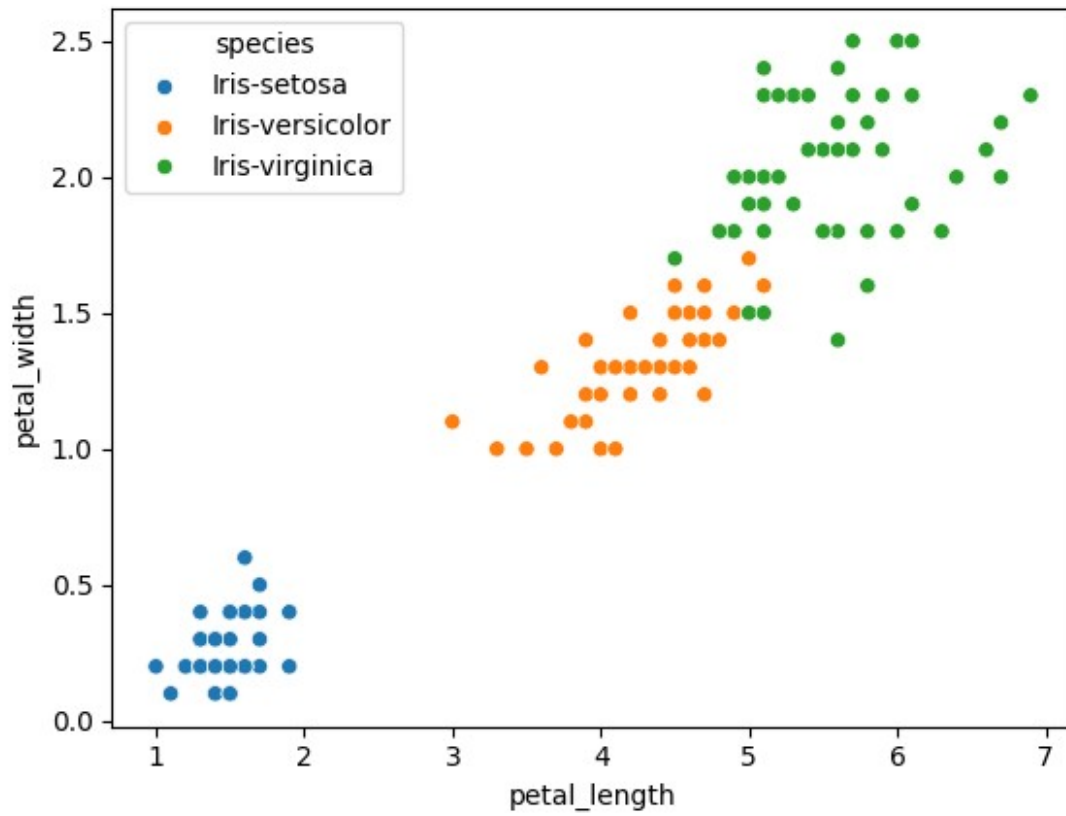
sns.scatterplot(data=df,x="sepal_length",y='petal_width',hue="species"
)
plt.show()
sns.scatterplot(data=df,x="sepal_length",y='sepal_width',hue="species"
)
plt.show()
sns.scatterplot(data=df,x="sepal_length",y='petal_width',hue="species"
)
plt.show()
sns.scatterplot(data=df,x="sepal_width",y='petal_width',hue="species")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