

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
df=pd.read_csv(r"C:\Users\Admin\Downloads\archive\Iris.csv")
print(df.head(75))

print(df.shape)
```

```
   Id  SepalLengthCm  SepalWidthCm  PetalLengthCm  PetalWidthCm  \
0    1             5.1           3.5           1.4           0.2
1    2             4.9           3.0           1.4           0.2
2    3             4.7           3.2           1.3           0.2
3    4             4.6           3.1           1.5           0.2
4    5             5.0           3.6           1.4           0.2
..   ..            ...           ...           ...           ...
70   71             5.9           3.2           4.8           1.8
71   72             6.1           2.8           4.0           1.3
72   73             6.3           2.5           4.9           1.5
73   74             6.1           2.8           4.7           1.2
74   75             6.4           2.9           4.3           1.3
```

```
   Species
0  Iris-setosa
1  Iris-setosa
2  Iris-setosa
3  Iris-setosa
4  Iris-setosa
..   ...
70 Iris-versicolor
71 Iris-versicolor
72 Iris-versicolor
73 Iris-versicolor
74 Iris-versicolor
```

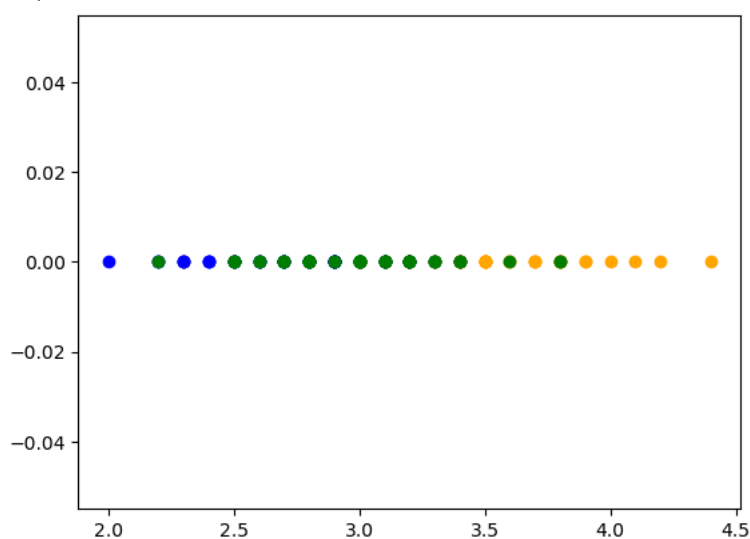
```
[75 rows x 6 columns]
(150, 6)
```

```
df.loc[df['Species'] == 'Iris-setosa']
```

```
df_sertosa = df.loc[df['Species'] == 'Iris-setosa']
df_versicolor = df.loc[df['Species'] == 'Iris-versicolor']
df_virginica = df.loc[df['Species'] == 'Iris-virginica']
```

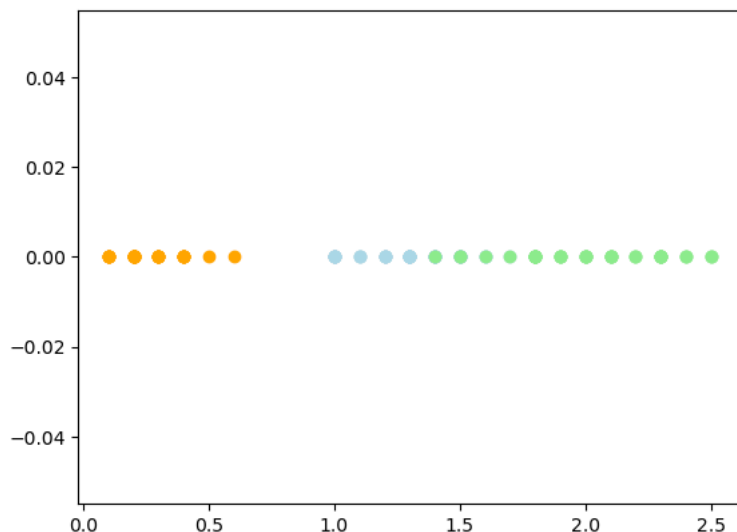
```
plt.scatter(df_sertosa['SepalWidthCm'],np.zeros_like(df_sertosa['SepalWidthCm']),color='orange')
plt.scatter(df_versicolor['SepalWidthCm'],np.zeros_like(df_versicolor['SepalWidthCm']),color='blue')
plt.scatter(df_virginica['SepalWidthCm'],np.zeros_like(df_virginica['SepalWidthCm']),color='green')
```

```
<matplotlib.collections.PathCollection at 0x25cd48a16d0>
```



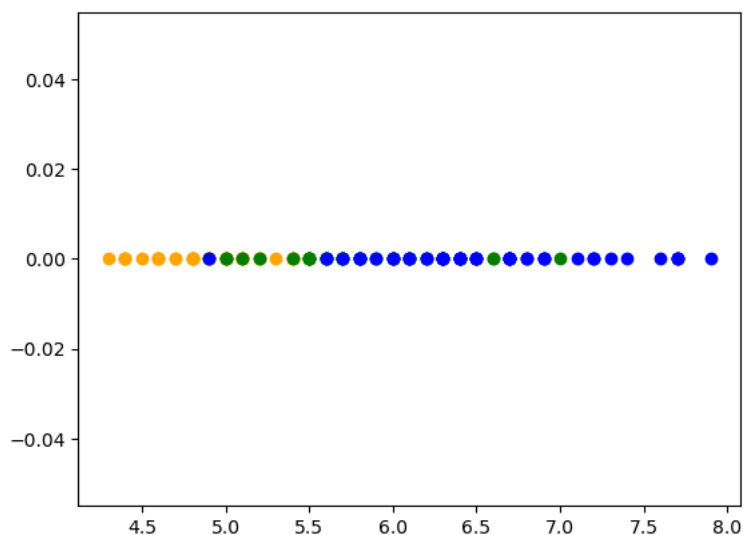
```
plt.scatter(df_sertosa['PetalWidthCm'],np.zeros_like(df_sertosa['PetalWidthCm']),color='orange')
plt.scatter(df_versicolor['PetalWidthCm'],np.zeros_like(df_versicolor['PetalWidthCm']),color='lightblue')
plt.scatter(df_virginica['PetalWidthCm'],np.zeros_like(df_virginica['PetalWidthCm']),color='lightgreen')
```

<matplotlib.collections.PathCollection at 0x25cd4925310>



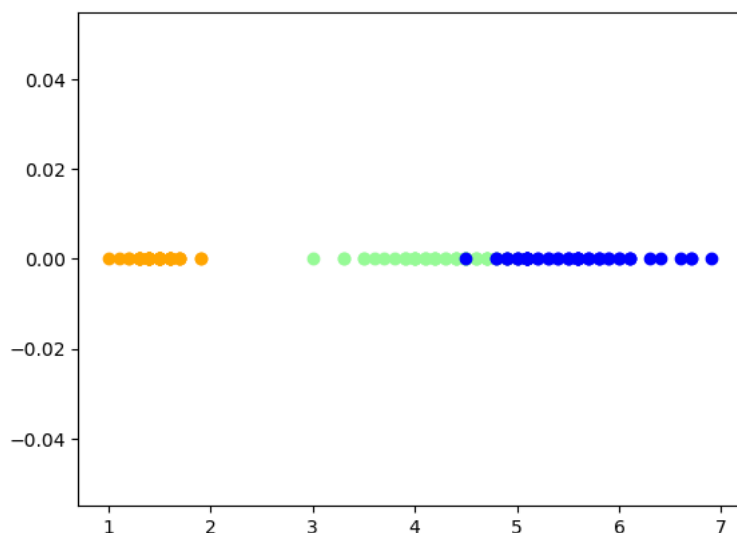
```
plt.scatter(df_sertosa['SepalLengthCm'], np.zeros_like(df_sertosa['SepalLengthCm']), color='orange')
plt.scatter(df_versicolor['SepalLengthCm'], np.zeros_like(df_versicolor['SepalLengthCm']), color='green')
plt.scatter(df_virginica['SepalLengthCm'], np.zeros_like(df_virginica['SepalLengthCm']), color='blue')
```

<matplotlib.collections.PathCollection at 0x25cd4bdb610>

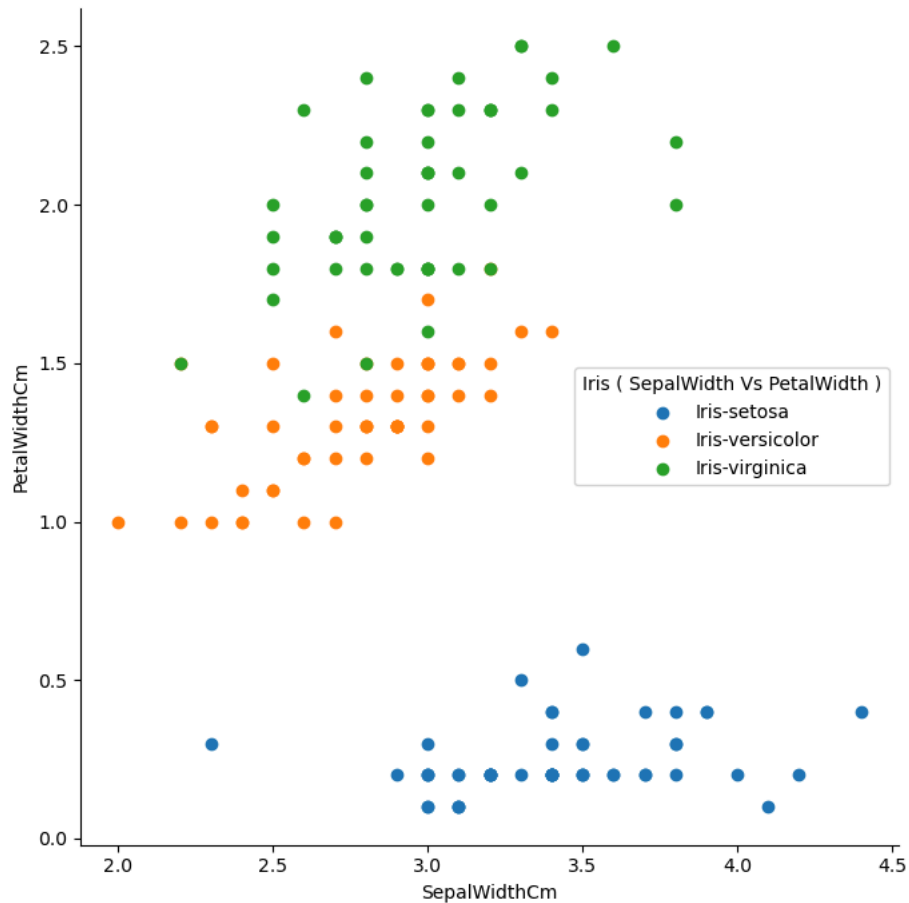


```
plt.scatter(df_sertosa['PetalLengthCm'], np.zeros_like(df_sertosa['PetalLengthCm']), color='orange')
plt.scatter(df_versicolor['PetalLengthCm'], np.zeros_like(df_versicolor['PetalLengthCm']), color='palegreen')
plt.scatter(df_virginica['PetalLengthCm'], np.zeros_like(df_virginica['PetalLengthCm']), color='blue')
```

<matplotlib.collections.PathCollection at 0x25cd4c69e50>

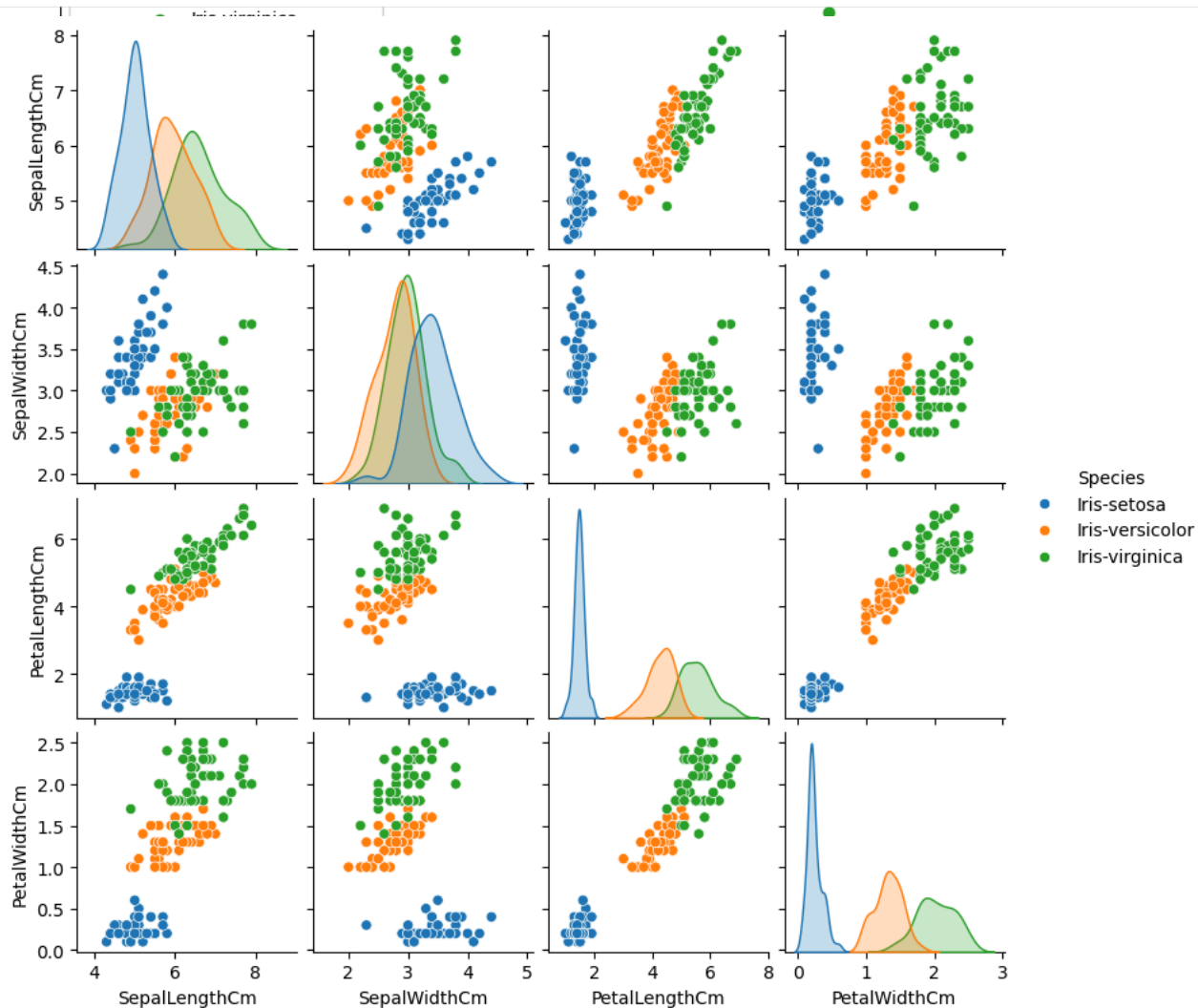


```
sns.FacetGrid(df,hue='Species',height=7).map(plt.scatter,'SepalWidthCm','PetalWidthCm')  
plt.legend(title="Iris ( SepalWidth Vs PetalWidth )")  
plt.show()
```



```
sns.FacetGrid(df, hue='Species',height=7).map(plt.scatter,'SepalLengthCm','PetalLengthCm')  
plt.legend(title='Iris ( SepalLength Vs PetalLength)')  
plt.show()
```

```
sns.pairplot(df.drop('Id',axis=1),hue='Species',height=2)  
plt.show()
```



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