

```

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']

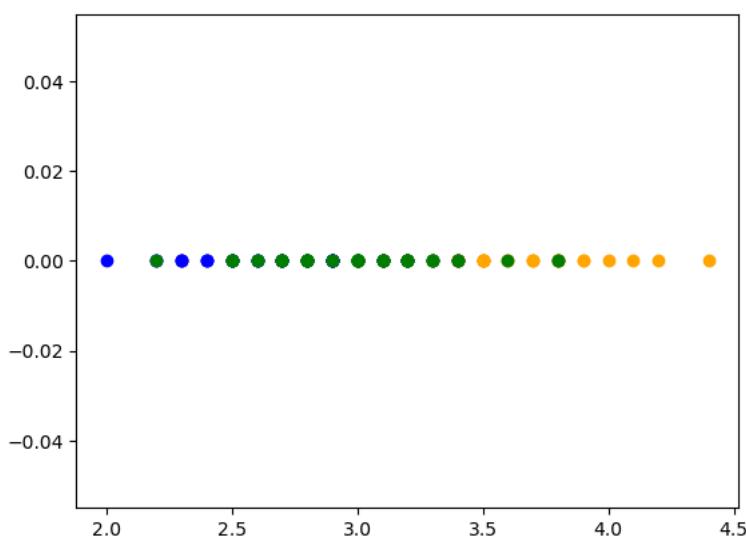
```

```

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')

```

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

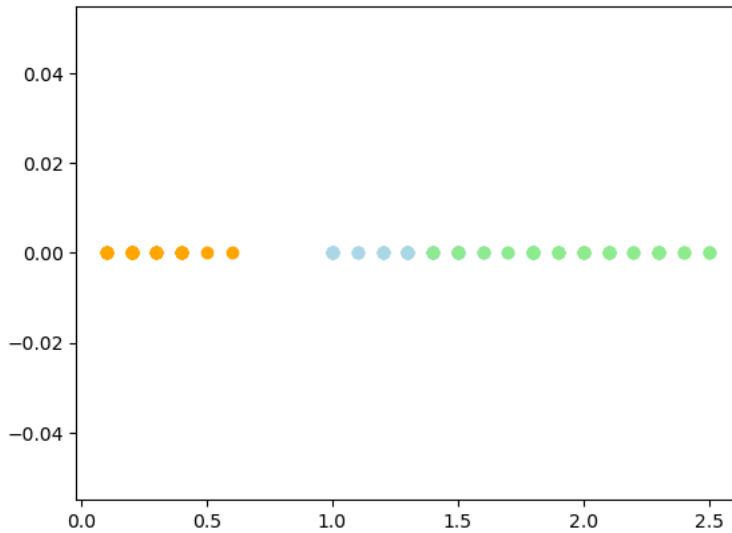


```

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')

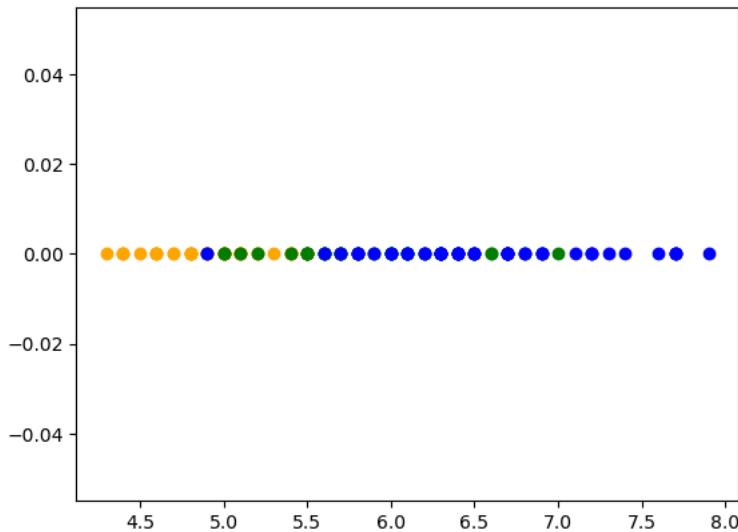
```

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<matplotlib.collections.PathCollection at 0x25cd4925310>
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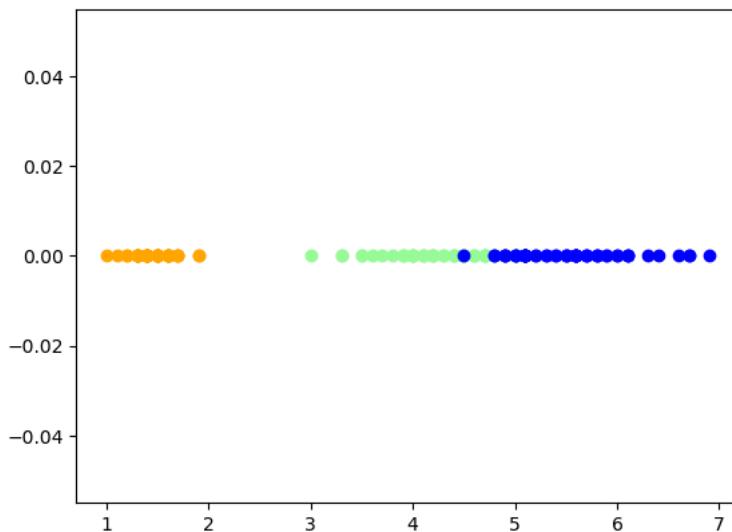
```
plt.scatter(df_sertosa['SepalLengthCm'],np.zeros_like(df_sertosa['SepalLengthCm']),color='orange')
plt.scatter(df_versicolor['SepalLengthCm'],np.zeros_like(df_versicolor['SepalLengthCm']),color='green')
plt.scatter(df_virginica['SepalLengthCm'],np.zeros_like(df_virginica['SepalLengthCm']),color='blue')
```

```
<matplotlib.collections.PathCollection at 0x25cd4bdb610>
```

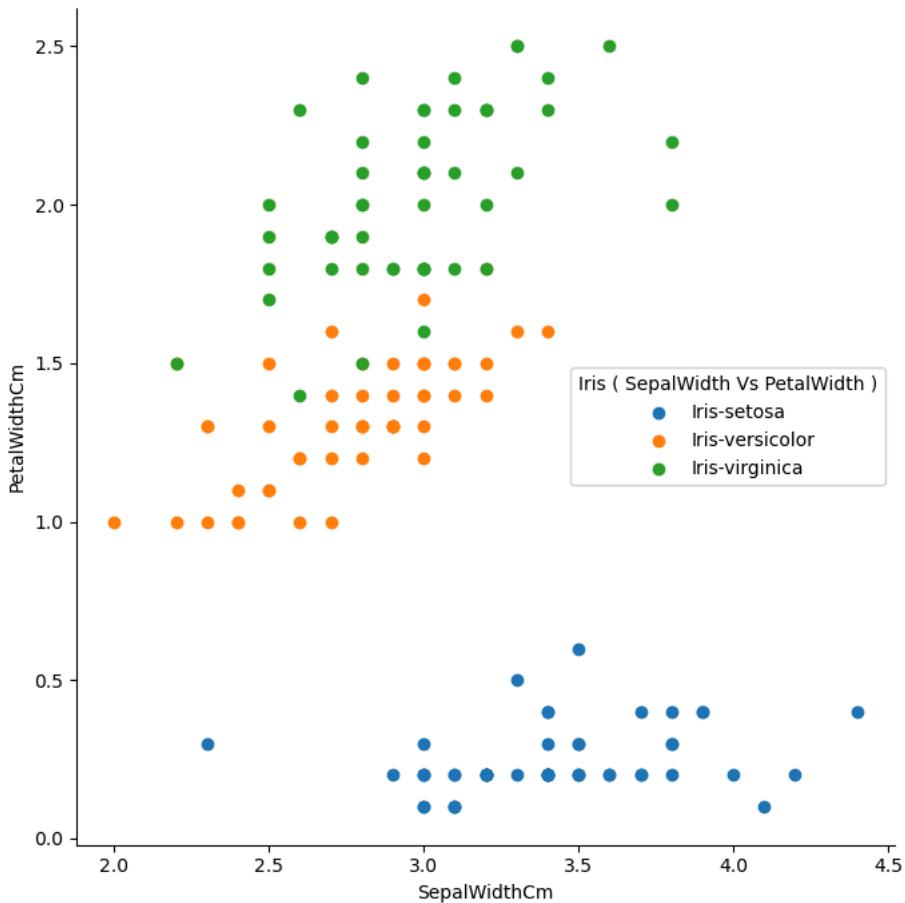


```
plt.scatter(df_sertosa['PetalLengthCm'],np.zeros_like(df_sertosa['PetalLengthCm']),color='orange')
plt.scatter(df_versicolor['PetalLengthCm'],np.zeros_like(df_versicolor['PetalLengthCm']),color='palegreen')
plt.scatter(df_virginica['PetalLengthCm'],np.zeros_like(df_virginica['PetalLengthCm']),color='blue')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

```
<matplotlib.collections.PathCollection at 0x25cd4c69e50>
```

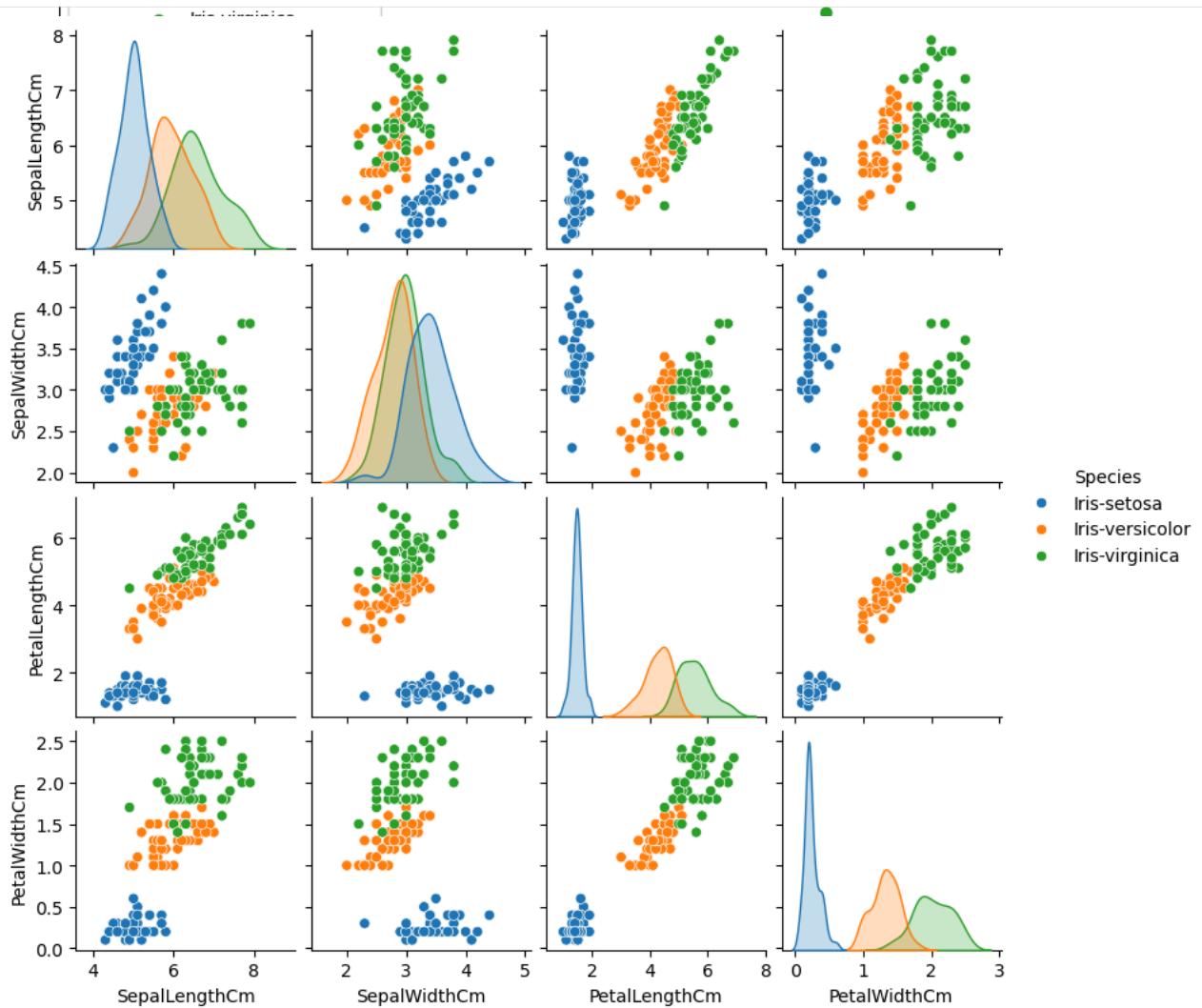


```
sns.FacetGrid(df,hue='Species',height=7).map(plt.scatter,'SepalWidthCm','PetalWidthCm')
plt.legend(title="Iris ( SepalWidth Vs PetalWidth )")
plt.show()
```



```
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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