In [1]:
```
import pandas as pd
```

In [3]:
```
# Reading the CSV file
df = pd.read_csv("iris_csv.csv")

# Printing top 5 rows
df.head()
```

Out[3]:

	sepallength	sepalwidth	petallength	petalwidth	class
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

In [4]:
```
df.shape
```

Out[4]: (150, 5)

In [5]:
```
df.info()
```

Out[4]: (150, 5)

In [5]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
 #   Column       Non-Null Count  Dtype  
---  ------       --------------  -----  
 0   sepallength  150 non-null    float64
 1   sepalwidth   150 non-null    float64
 2   petallength  150 non-null    float64
 3   petalwidth   150 non-null    float64
 4   class        150 non-null    object 
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
```

In [6]:
```
df.describe()
```

Out[6]:

	sepallength	sepalwidth	petallength	petalwidth
count	150.000000	150.000000	150.000000	150.000000
mean	5.843333	3.054000	3.758667	1.198667
std	0.828066	0.433594	1.764420	0.763161
min	4.300000	2.000000	1.000000	0.100000
25%	5.100000	2.800000	1.600000	0.300000
50%	5.800000	3.000000	4.350000	1.300000

25%	5.100000	2.800000	1.600000	0.300000
50%	5.800000	3.000000	4.350000	1.300000
75%	6.400000	3.300000	5.100000	1.800000
max	7.900000	4.400000	6.900000	2.500000

In [7]:
```
df.isnull().sum()
```

Out[7]:
```
sepallength    0
sepalwidth     0
petallength    0
petalwidth     0
class          0
dtype: int64
```

In [10]:
```
data = df.drop_duplicates(subset ="class",)
data
```

Out[10]:

	sepallength	sepalwidth	petallength	petalwidth	class
0	5.1	3.5	1.4	0.2	Iris-setosa
50	7.0	3.2	4.7	1.4	Iris-versicolor
100	6.3	3.3	6.0	2.5	Iris-virginica

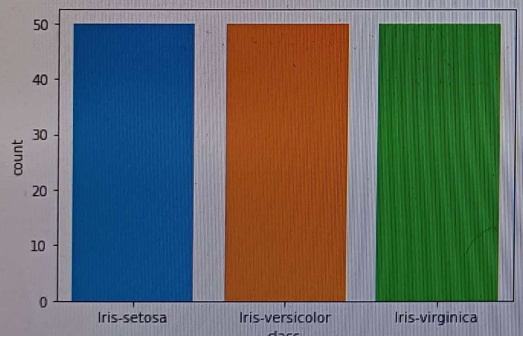
In [12]:
```
df.value_counts("class")
```

Out[12]:
```
class
```

Out[12]:
```
class
Iris-setosa        50
Iris-versicolor    50
Iris-virginica     50
dtype: int64
```

In [14]:
```
import seaborn as sns
import matplotlib.pyplot as plt
```

In [15]:
```
sns.countplot(x='class', data=df, )
plt.show()
```



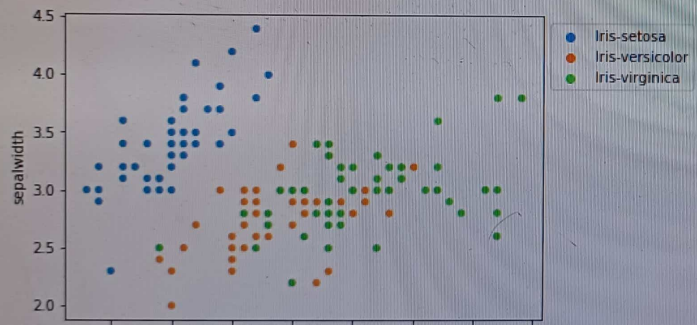
Iris-setosa Iris-versicolor Iris-virginica
class

In [18]:
```
#Example 1: Comparing Sepal Length and Sepal Width
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt


sns.scatterplot(x='sepallength', y='sepalwidth',
                hue='class', data=df, )

# Placing Legend outside the Figure
plt.legend(bbox_to_anchor=(1, 1), loc=2)

plt.show()
```



4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0
sepallength

In [19]:
```
#Example 2: Comparing Petal Length and Petal Width
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt


sns.scatterplot(x='petallength', y='petalwidth',
                hue='class', data=df, )

# Placing Legend outside the Figure
plt.legend(bbox_to_anchor=(1, 1), loc=2)

plt.show()
```