In [1]:
```
%config Completer.use_jedi = False
```

In [2]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

In [3]:
```
df = pd.read_csv('Iris.csv')
```

In [4]:
```
df.describe()
```

Out[4]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	75.500000	5.843333	3.054000	3.758667	1.198667
std	43.445368	0.828066	0.433594	1.764420	0.763161
min	1.000000	4.300000	2.000000	1.000000	0.100000
25%	38.250000	5.100000	2.800000	1.600000	0.300000
50%	75.500000	5.800000	3.000000	4.350000	1.300000
75%	112.750000	6.400000	3.300000	5.100000	1.800000
max	150.000000	7.900000	4.400000	6.900000	2.500000

In [5]:
```
df.groupby('Species').describe().round(2)
```

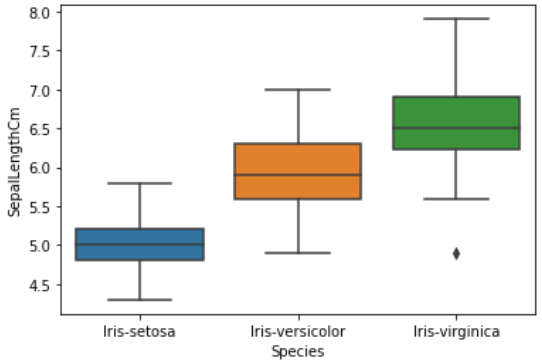
Out[5]:

	Id								SepalLengthCm		...	PetalLength	
	count	**mean**	**std**	**min**	**25%**	**50%**	**75%**	**max**	**count**	**mean**	...	**75%**	**m**
Species													
Iris-setosa	50.0	25.5	14.58	1.0	13.25	25.5	37.75	50.0	50.0	5.01	...	1.58	
Iris-versicolor	50.0	75.5	14.58	51.0	63.25	75.5	87.75	100.0	50.0	5.94	...	4.60	
Iris-virginica	50.0	125.5	14.58	101.0	113.25	125.5	137.75	150.0	50.0	6.59	...	5.88	

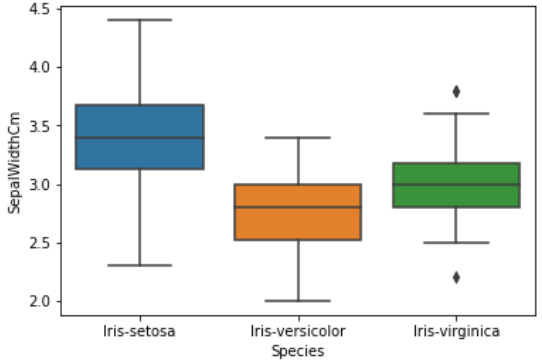
3 rows × 40 columns

In [6]:
```
def box_plot_species(df, column):
    sns.boxplot(data=df, x='Species', y=column)
```

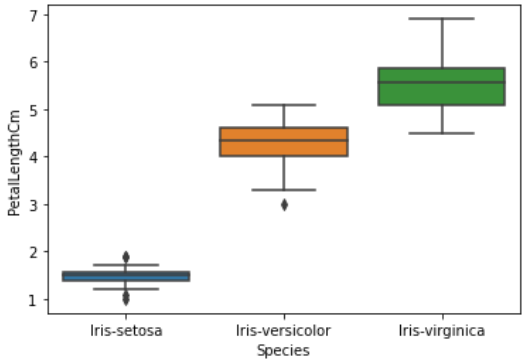
In [7]:
```
box_plot_species(df, 'SepalLengthCm')
```

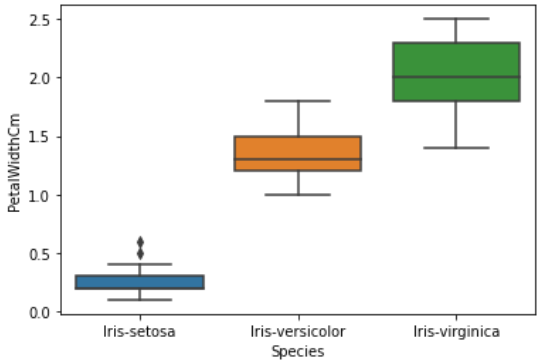
In [8]:
```
box_plot_species(df, 'SepalWidthCm')
```



In [9]:
```
box_plot_species(df, 'PetalLengthCm')
```

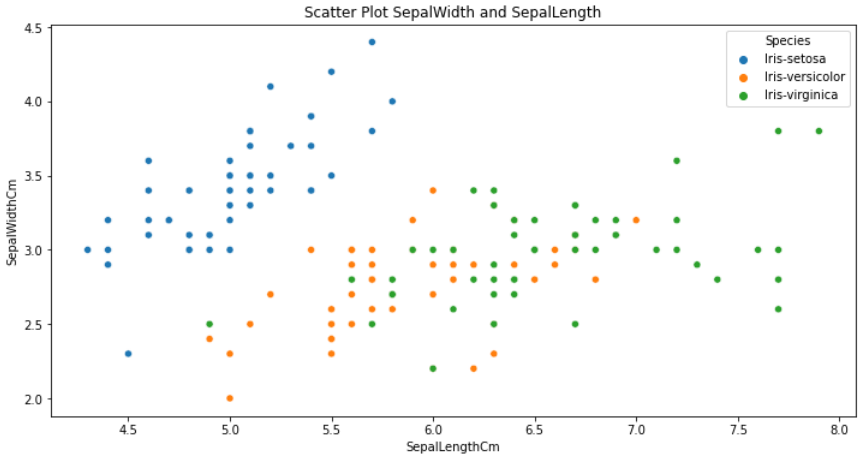


In [10]:
```
box_plot_species(df, 'PetalWidthCm')
```



In [11]:
```
f, ax = plt.subplots(figsize=(12,6))
a = sns.scatterplot(data=df, x='SepalLengthCm', y='SepalWidthCm', hue='Species', ax=
a.set_title('Scatter Plot SepalWidth and SepalLength')
```

Out[11]: Text(0.5, 1.0, 'Scatter Plot SepalWidth and SepalLength')



In [12]:
```
f, ax = plt.subplots(figsize=(12,6))
b = sns.scatterplot(data=df, x='PetalLengthCm', y='PetalWidthCm', hue='Species', ax=
b.set_title('Scatter Plot PetalWidth and PetalLength');
```