Line Plot

- Line plot is numeric value based graph ### Import Libraries with installtion of Seaborn library some libraries automatically installed
- matplotlib
- numpy
- panadas
- scipy

In [1]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
phool = sns.load_dataset("iris")
phool
```

Out[1]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

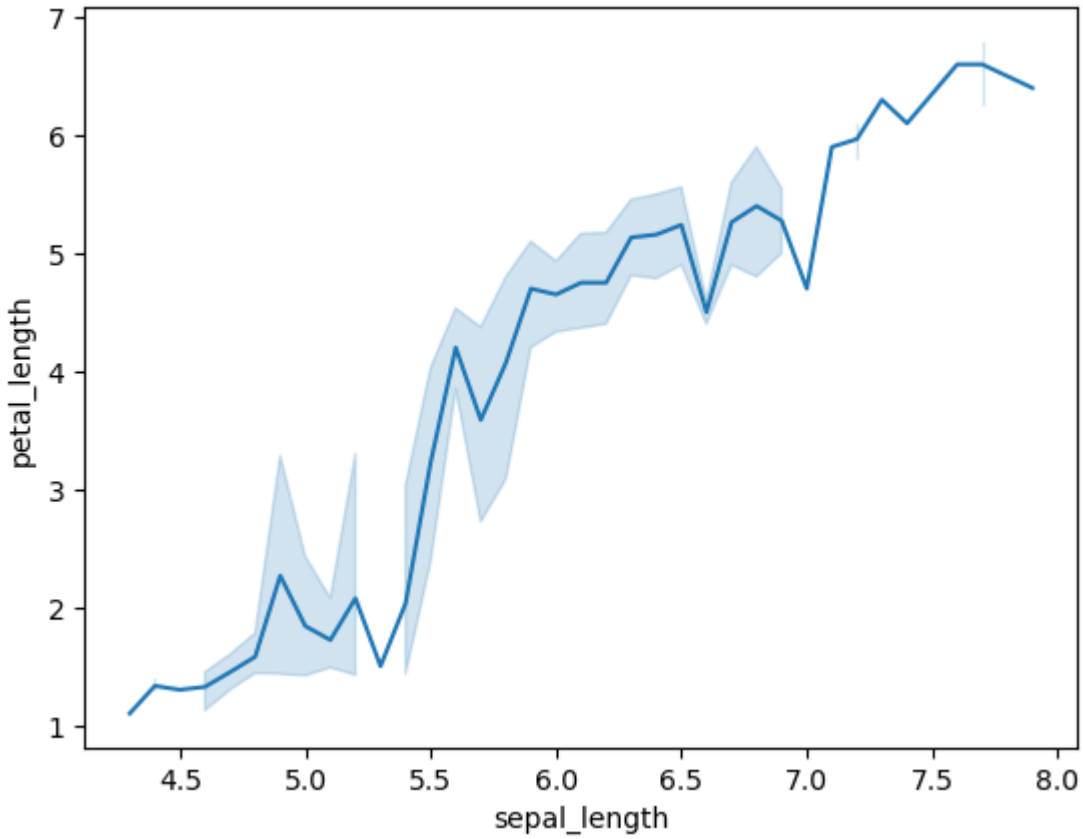
150 rows × 5 columns

In [3]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
phool = sns.load_dataset("iris")

# Draw a line plot
sns.lineplot(x="sepal_length",y="petal_length",data=phool)
```

Out[3]:
```
<Axes: xlabel='sepal_length', ylabel='petal_length'>
```



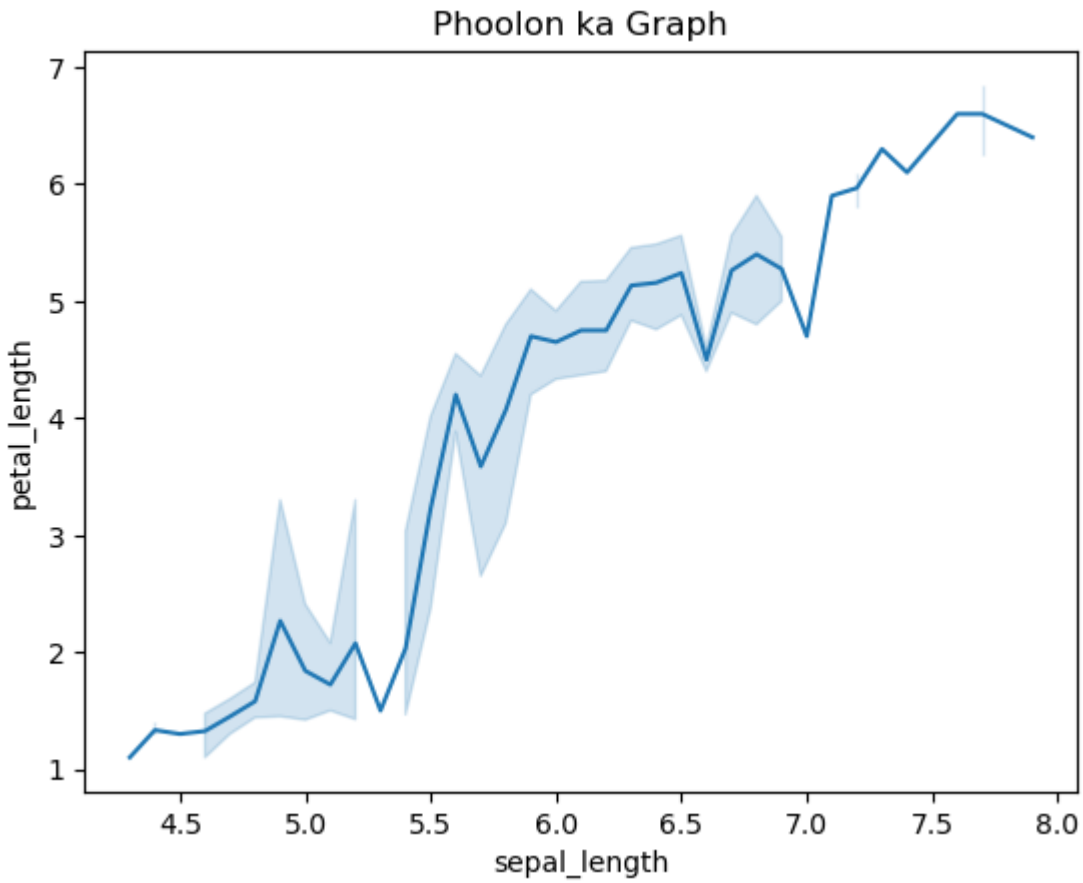
Adding Titles to plots

In [5]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
phool = sns.load_dataset("iris")

# Draw a line plot
sns.lineplot(x="sepal_length",y="petal_length",data=phool)
plt.title ("Phoolon ka Graph")
```

Out[5]:
```
Text(0.5, 1.0, 'Phoolon ka Graph')
```



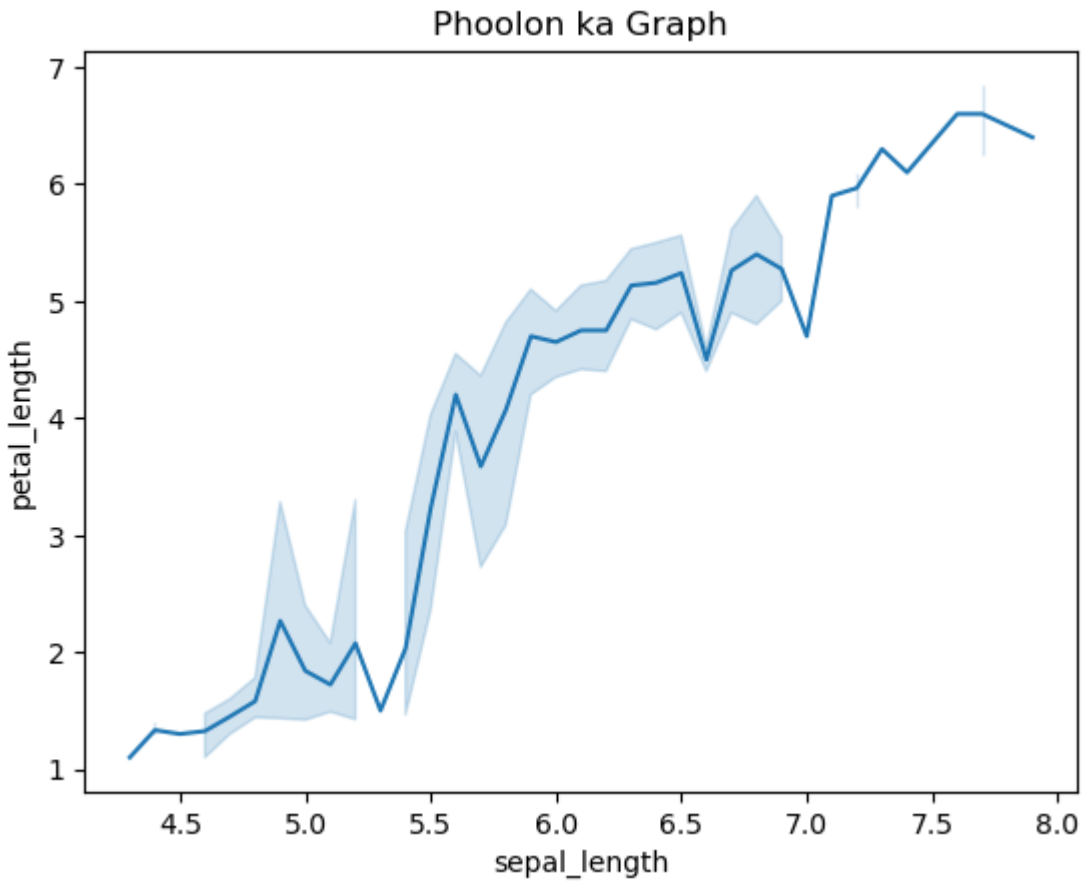
Adding Limits

In [8]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
phool = sns.load_dataset("iris")

# Draw a line plot
sns.lineplot(x="sepal_length",y="petal_length",data=phool)
# plt.xlim(3)
# plt.ylim(3)
plt.title ("Phoolon ka Graph")
```

Out[8]:
```
Text(0.5, 1.0, 'Phoolon ka Graph')
```



Adding Styles

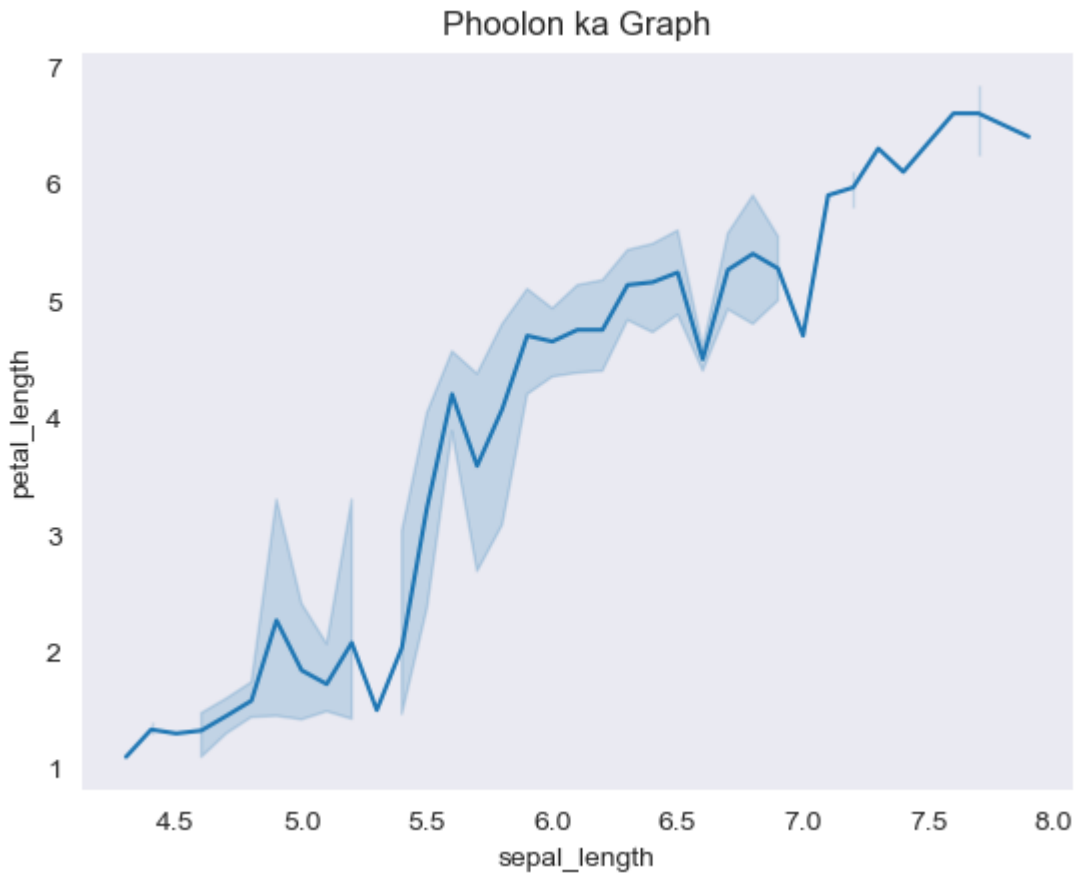
- darkgrid
- whitegrid
- dark
- white
- ticks

In [16]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_style(style = None,rc= None)

# load data set
phool = sns.load_dataset("iris")

# Draw a line plot
sns.lineplot(x="sepal_length",y="petal_length",data=phool)
sns.set_style("darkgrid")
plt.title ("Phoolon ka Graph")
```

Out[16]:
```
Text(0.5, 1.0, 'Phoolon ka Graph')
```

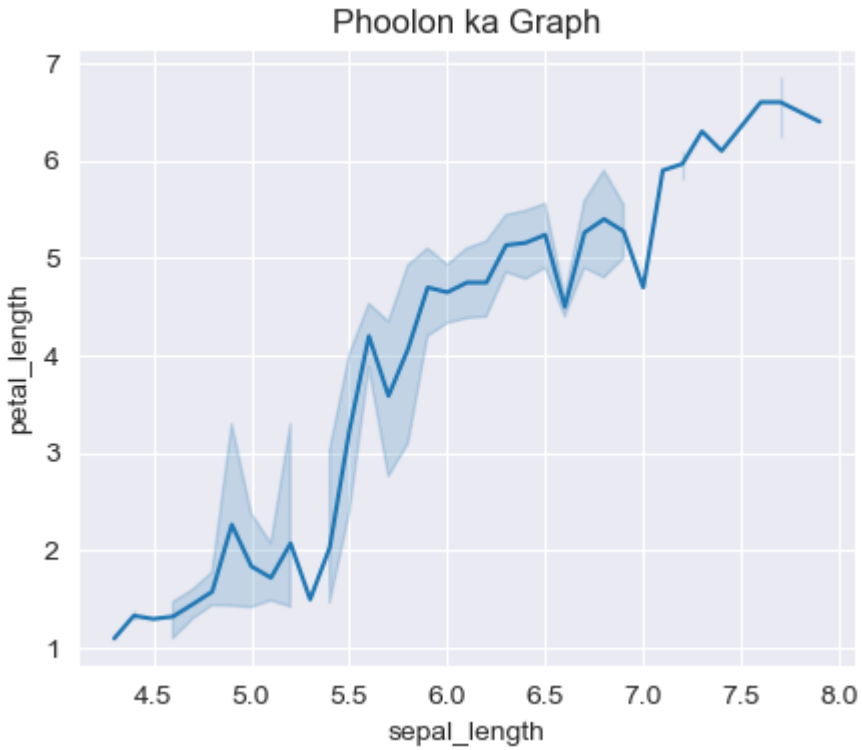


Size of Figure

In [18]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_style(style = None,rc= None)

# load data set
phool = sns.load_dataset("iris")
# change figure
plt.figure(figsize=(5,4))
# Draw a line plot
sns.lineplot(x="sepal_length",y="petal_length",data=phool)
sns.set_style("darkgrid")
plt.title ("Phoolon ka Graph")
```

Out[18]:
```
Text(0.5, 1.0, 'Phoolon ka Graph')
```


Phoolon ka Graph
petal_length
sepal_length
7
6
5
4
3
2
1
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0