In [1]:
```
1 pip install seaborn
```

```
Requirement already satisfied: seaborn in c:\users\ahmed islam\anaconda3\lib
\site-packages (0.12.2)
Requirement already satisfied: numpy!=1.24.0,>=1.17 in c:\users\ahmed islam
\anaconda3\lib\site-packages (from seaborn) (1.24.3)
Requirement already satisfied: pandas>=0.25 in c:\users\ahmed islam\anaconda
3\lib\site-packages (from seaborn) (2.0.3)
Requirement already satisfied: matplotlib!=3.6.1,>=3.1 in c:\users\ahmed isl
am\anaconda3\lib\site-packages (from seaborn) (3.7.2)
Requirement already satisfied: contourpy>=1.0.1 in c:\users\ahmed islam\anac
onda3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (1.0.5)
Requirement already satisfied: cycler>=0.10 in c:\users\ahmed islam\anaconda
3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\ahmed islam\ana
conda3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (4.25.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\ahmed islam\ana
conda3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\ahmed islam\anaco
nda3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (23.1)
Requirement already satisfied: pillow>=6.2.0 in c:\users\ahmed islam\anacond
a3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (9.4.0)
Requirement already satisfied: pyparsing<3.1,>=2.3.1 in c:\users\ahmed islam
\anaconda3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (3.0.9)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\ahmed islam
\anaconda3\lib\site-packages (from matplotlib!=3.6.1,>=3.1->seaborn) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\users\ahmed islam\anaconda
3\lib\site-packages (from pandas>=0.25->seaborn) (2023.3.post1)
Requirement already satisfied: tzdata>=2022.1 in c:\users\ahmed islam\anacon
da3\lib\site-packages (from pandas>=0.25->seaborn) (2023.3)
Requirement already satisfied: six>=1.5 in c:\users\ahmed islam\anaconda3\li
b\site-packages (from python-dateutil>=2.7->matplotlib!=3.6.1,>=3.1->seabor
n) (1.16.0)
Note: you may need to restart the kernel to use updated packages.
```

In [11]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

data= sns.load_dataset('iris')

data

```

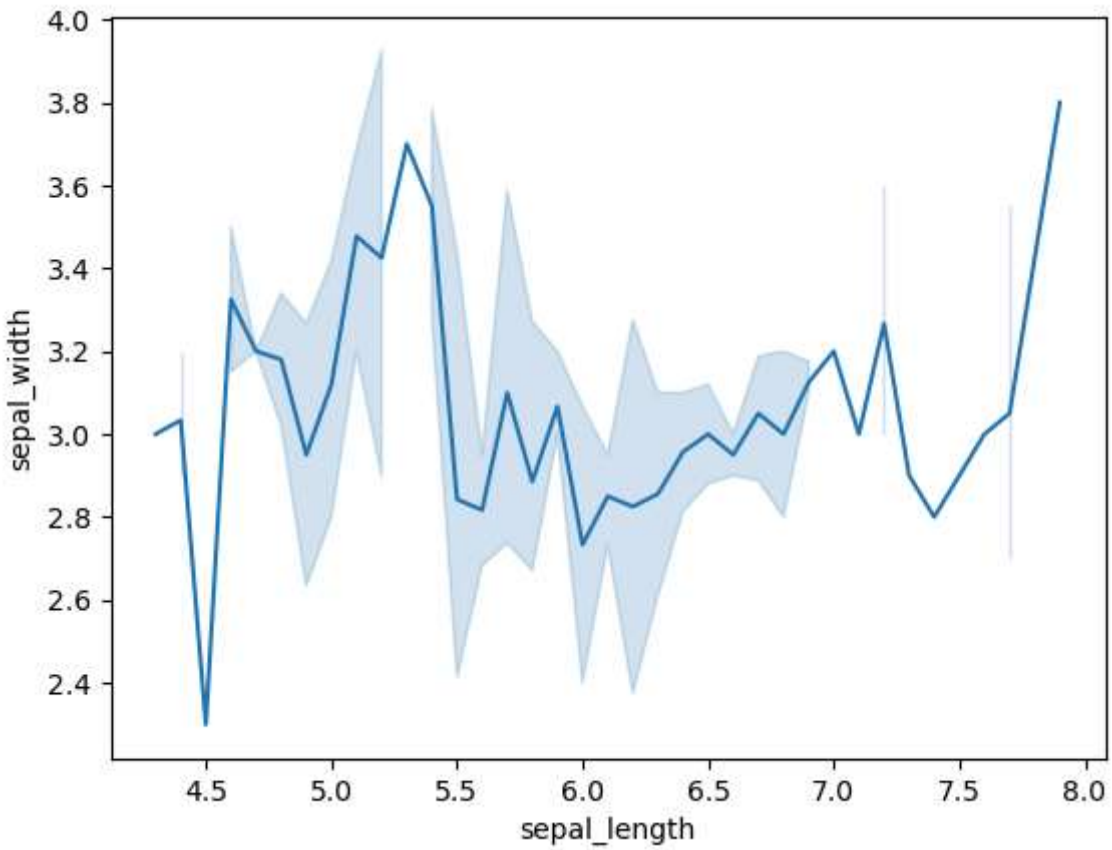
Out[11]:

	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

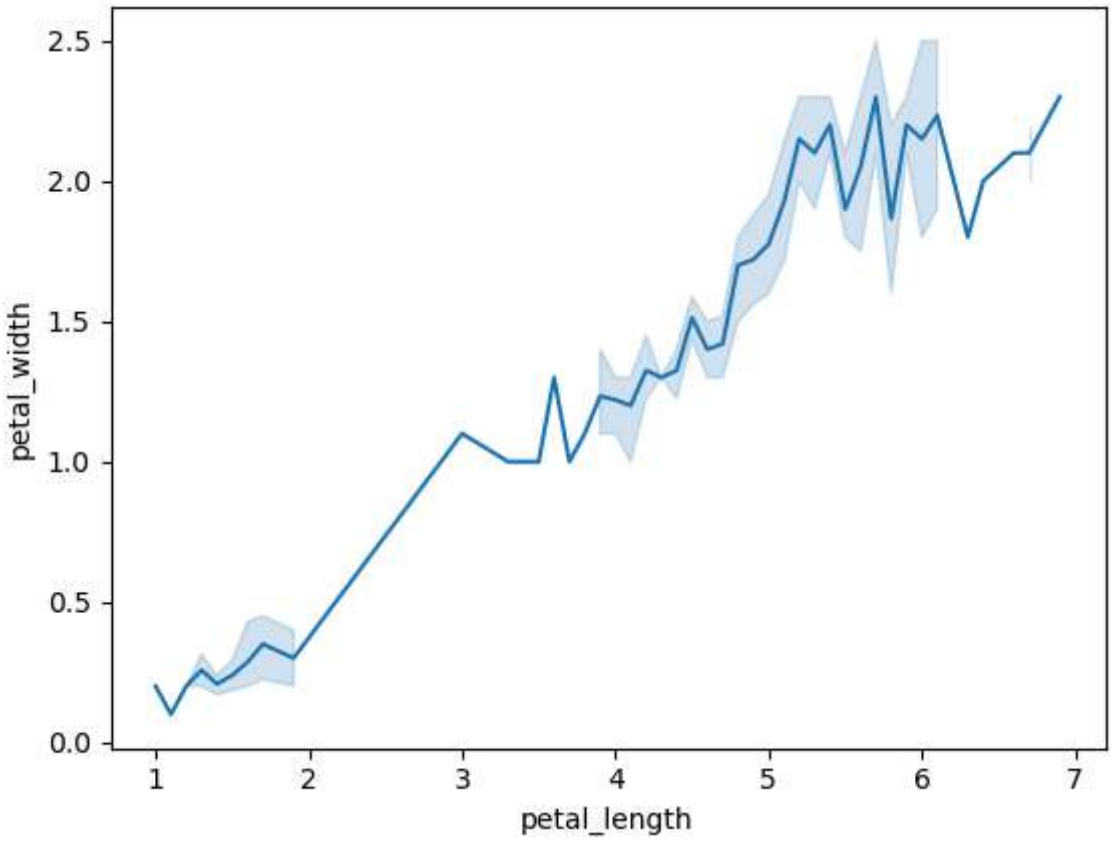
In [7]:
```
# Seaborn depends on  numpy ,pandas , matplotlib and scipy
import seaborn as sns

# loading dataset
data = sns.load_dataset("iris")

sns.lineplot(x="sepal_length", y="sepal_width", data=data)

```

Out[7]: <Axes: xlabel='sepal_length', ylabel='sepal_width'>



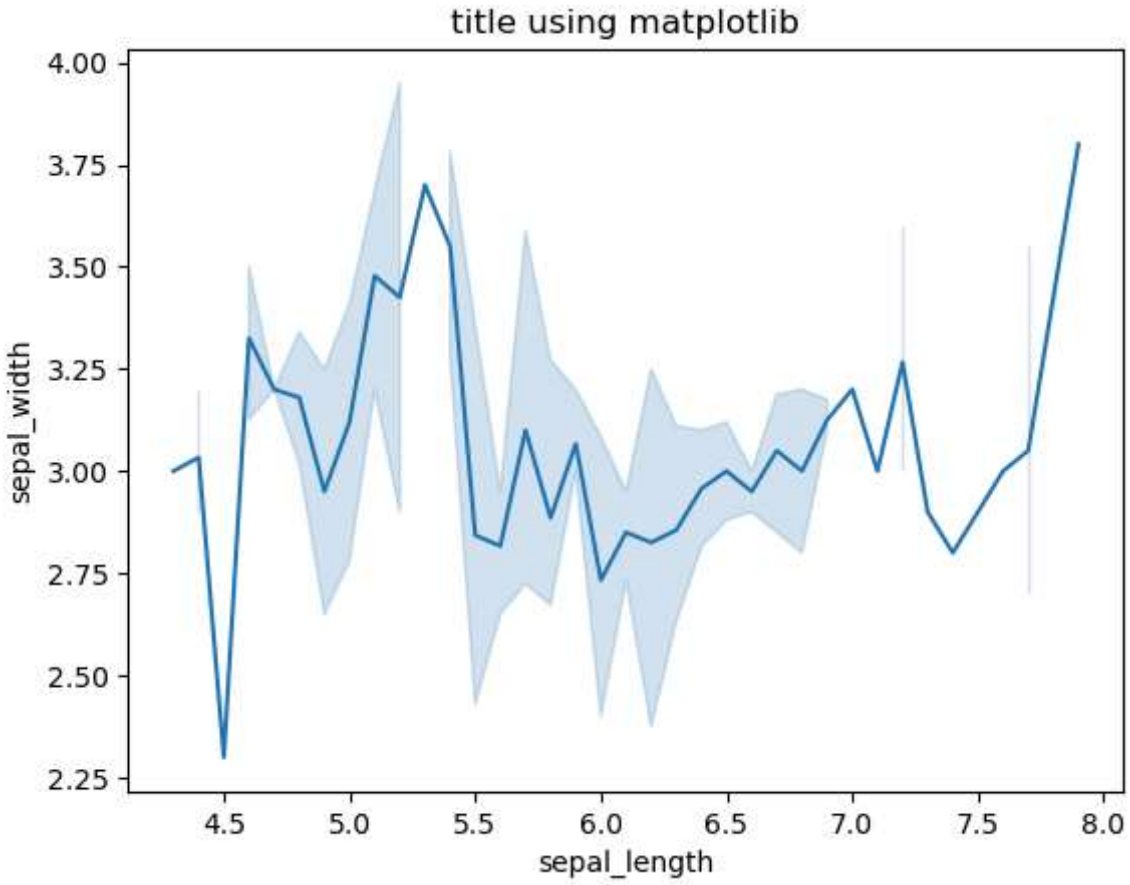
In [22]:
```
# Seaborn depends on  numpy ,pandas , matplotlib and scipy
import seaborn as sns

# loading dataset
data = sns.load_dataset("iris")

sns.lineplot( data ,x="petal_length", y="petal_width",)

```

Out[22]: <Axes: xlabel='petal_length', ylabel='petal_width'>



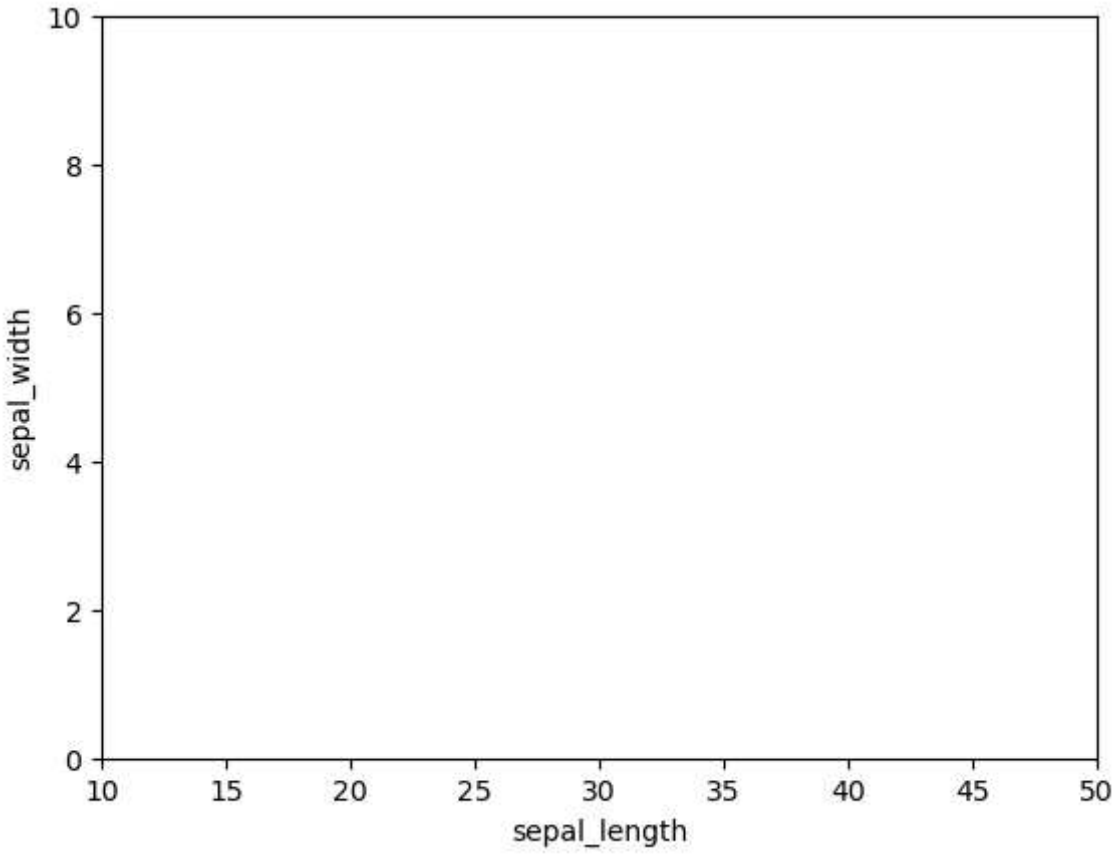
In [20]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

data= sns.load_dataset('iris')

sns.lineplot(data, x="sepal_length", y="sepal_width")

plt.title("title using matplotlib")
plt.show()

```



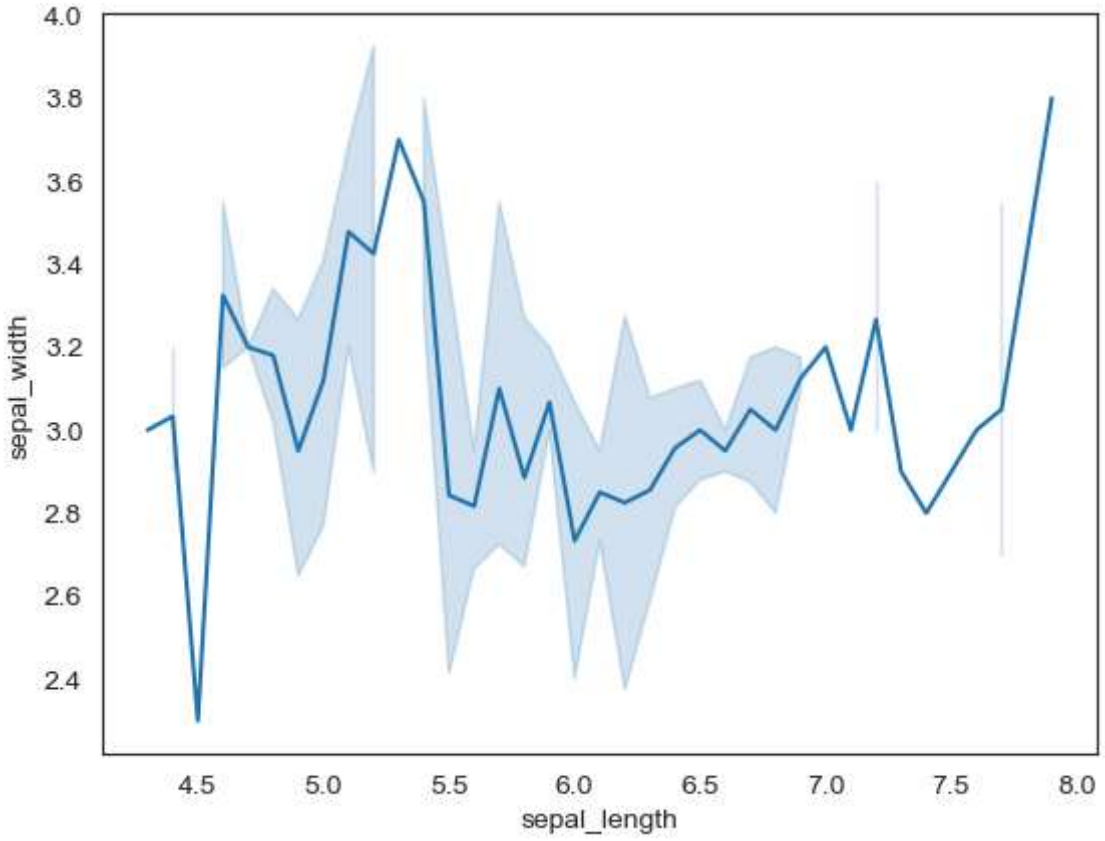
In [33]:

```
import seaborn as sns
import matplotlib.pyplot as plt

# Example data
data= sns.load_dataset("iris")

# Create a Seaborn plot with xlim and ylim
sns.lineplot(data,x="sepal_length", y="sepal_width")

plt.xlim(10, 50)
plt.ylim(0, 10)

# Display the plot

plt.show()
```



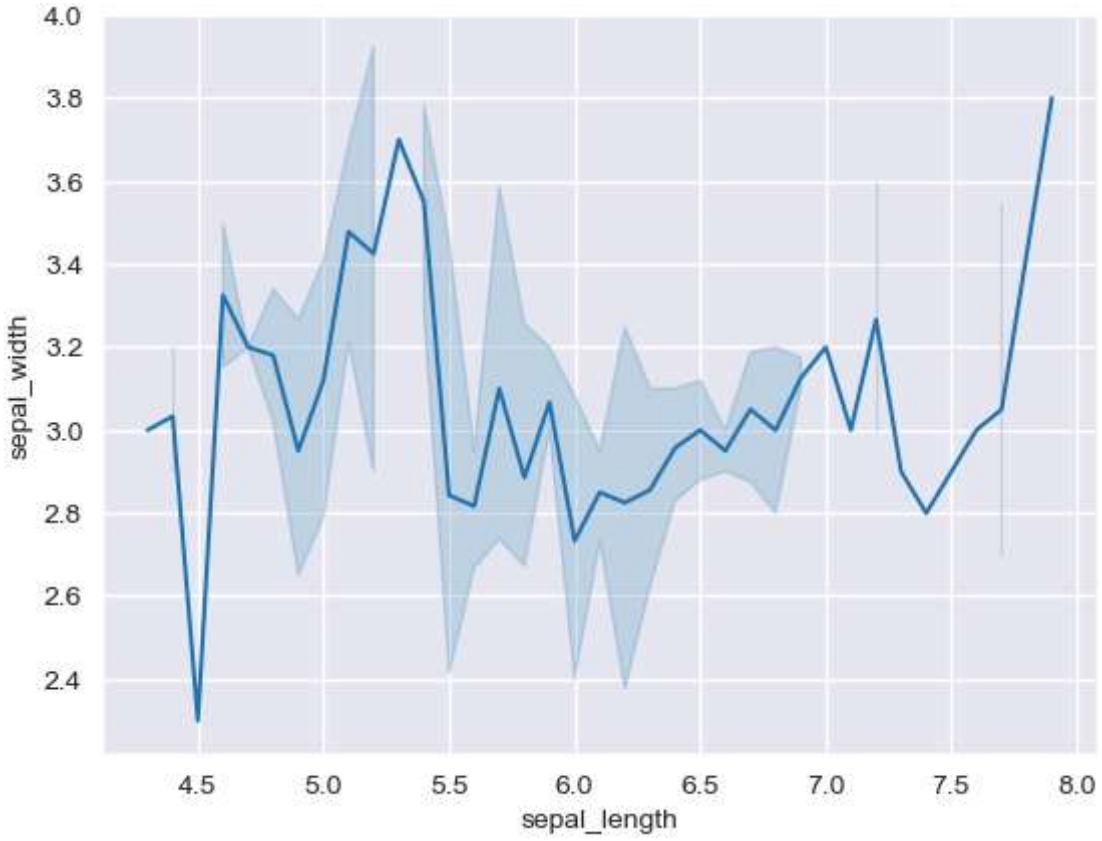
In [56]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.lineplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.set_style("dark")
plt.show()

```



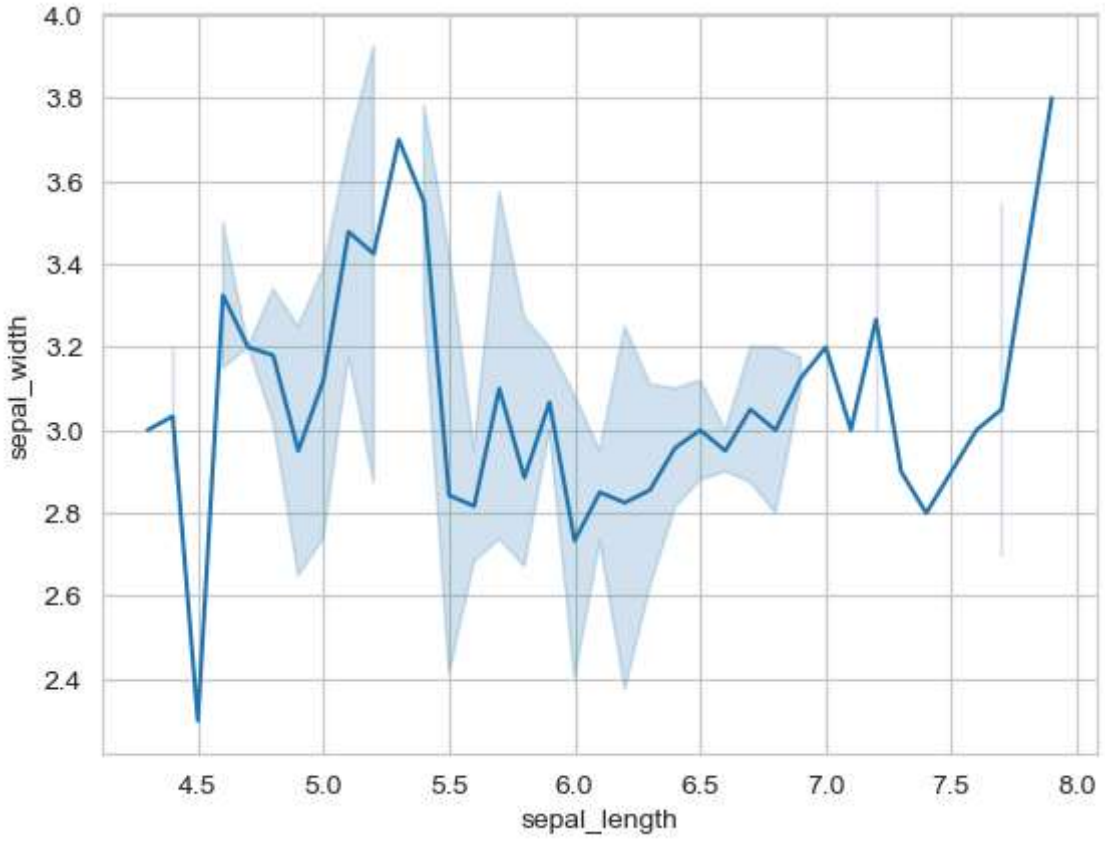
In [58]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.lineplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.set_style("darkgrid")
plt.show()

```



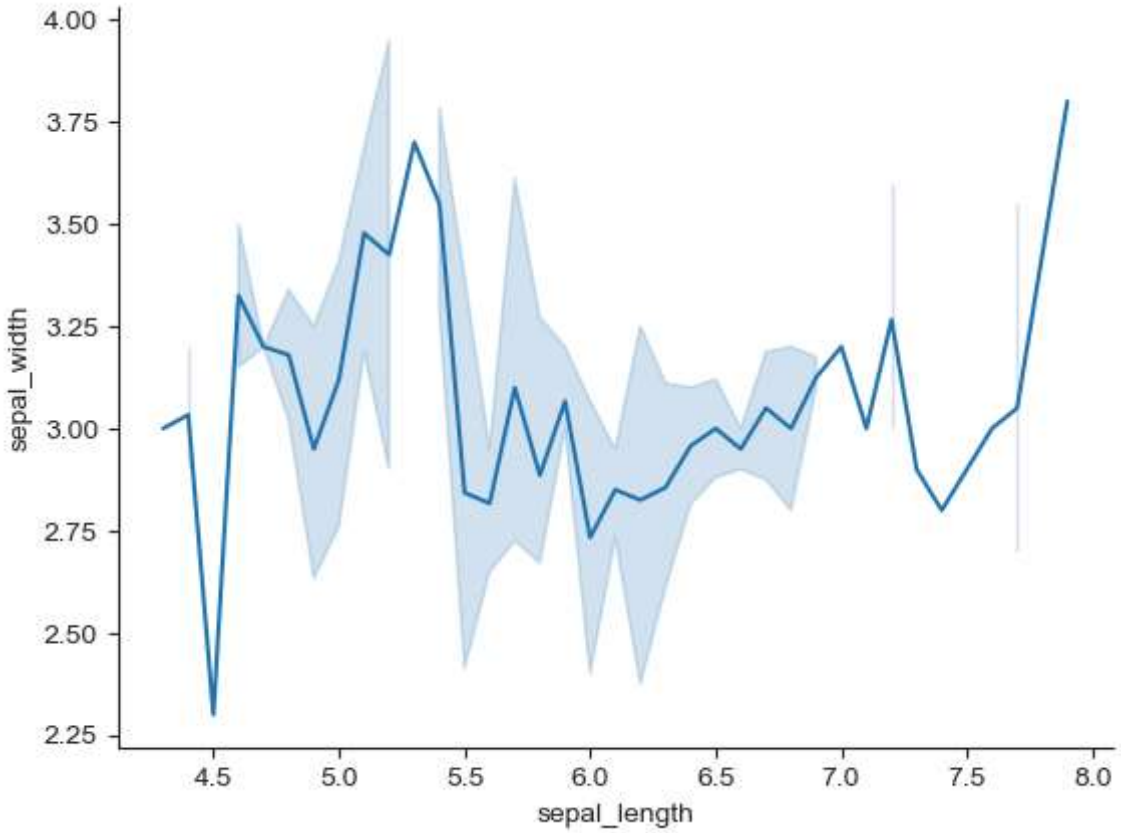
In [65]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.lineplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.set_style("whitegrid")
plt.show()

```



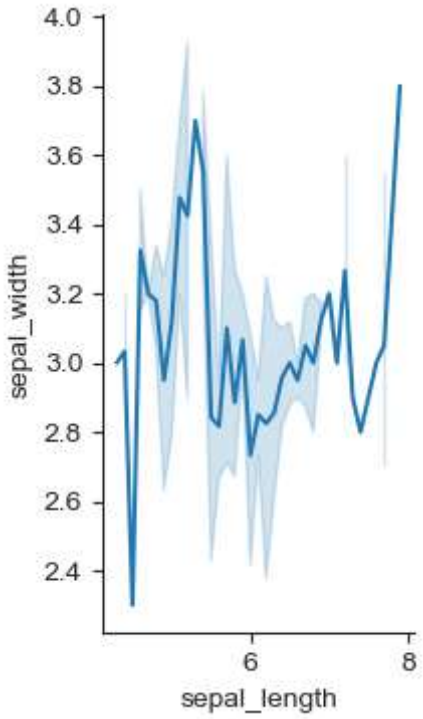
In [70]:

```
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.lineplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



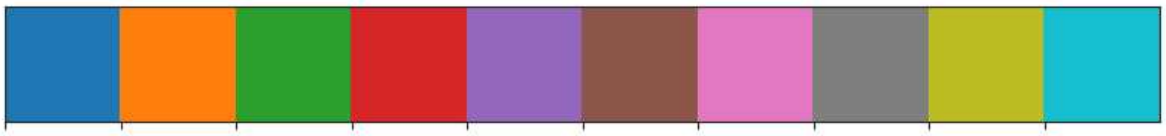
In [71]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# changing the figure size
plt.figure(figsize = (2, 4))

# draw lineplot
sns.lineplot(x="sepal_length", y="sepal_width", data=data)

# Removing the spines
sns.despine()

plt.show()

```



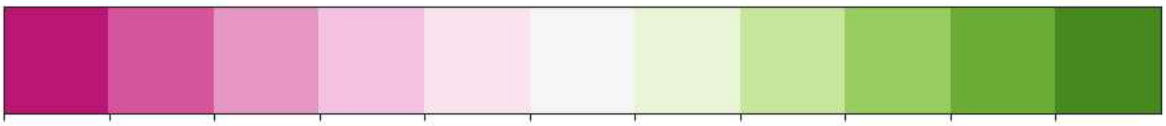
In [89]:

```
import seaborn as sns
import matplotlib.pyplot as plt

# current colot palette
pal_color = sns.color_palette()

# plots the color palette as a
# horizontal array
sns.palplot(pal_color)

plt.show()

```



In [83]:

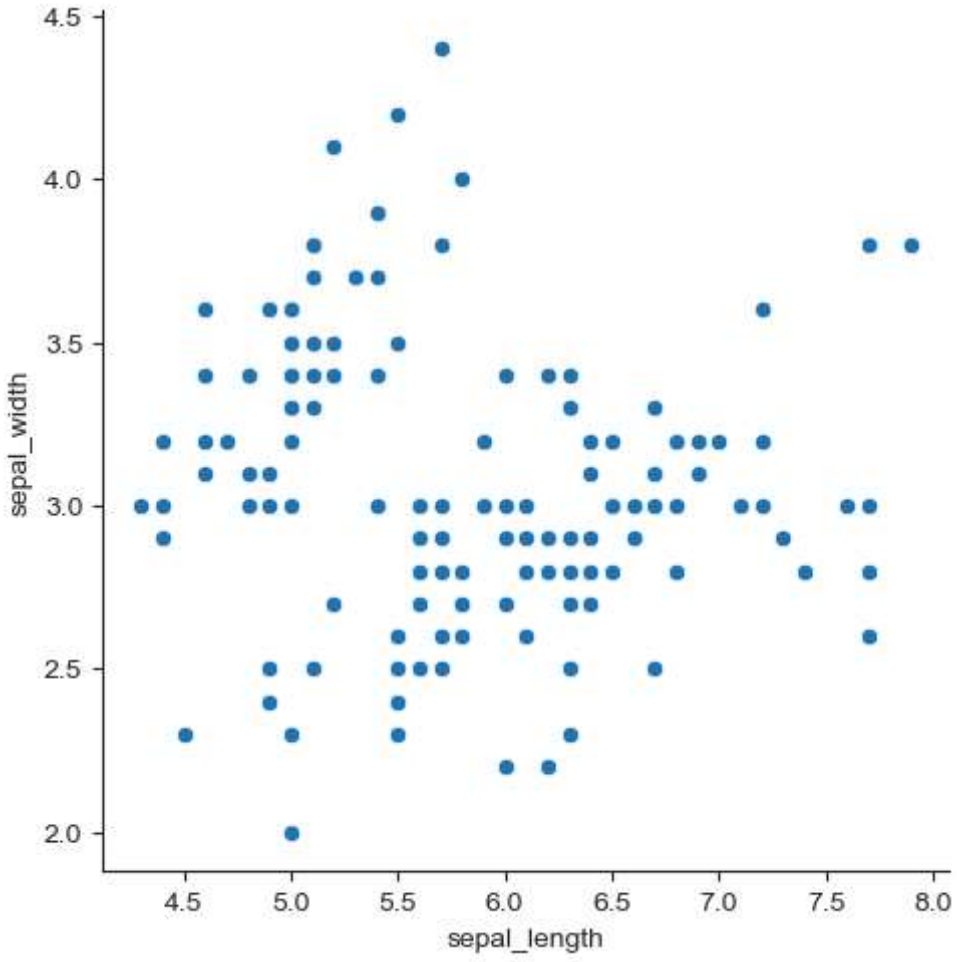
```
 import seaborn as sns
import matplotlib.pyplot as plt

# current colot palette
palette = sns.color_palette('PiYG', 11)

# diverging color palette
sns.palplot(palette)

plt.show()

```



In [93]:

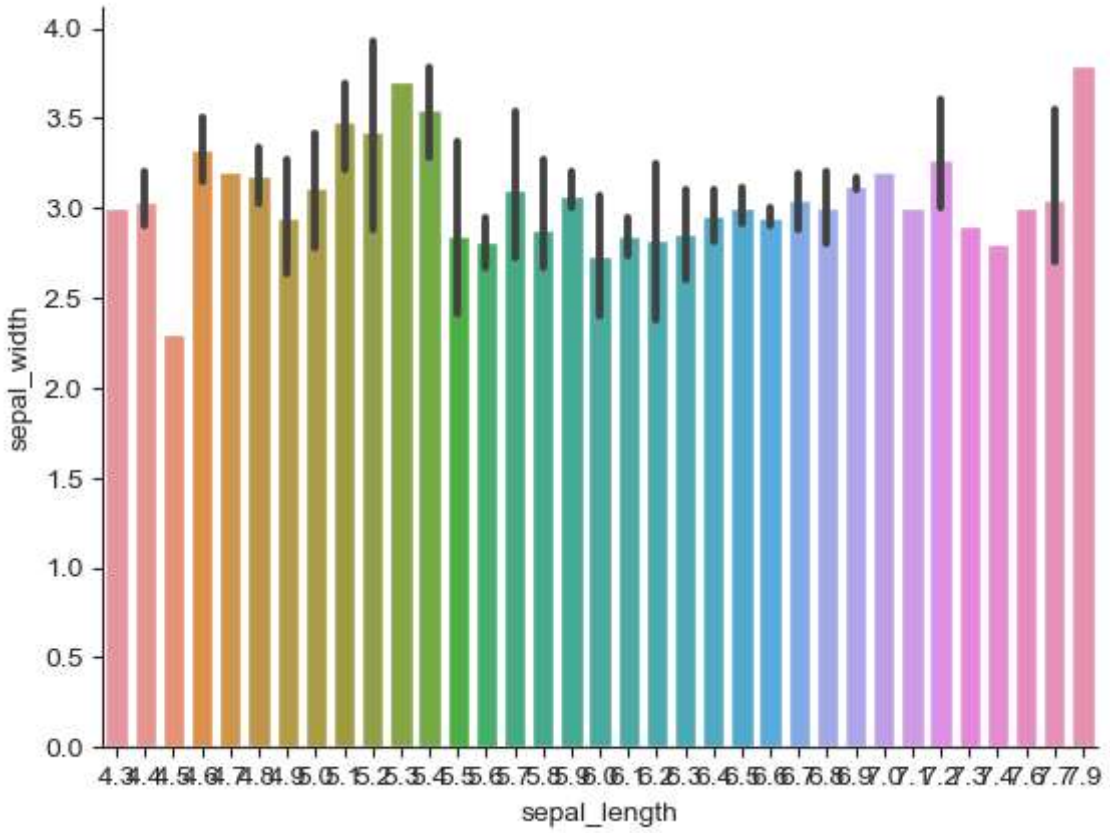
```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.relplot(x="sepal_length", y="sepal_width", data=data)
plt.show()
```

```
C:\Users\Ahmed Islam\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118: Us
erWarning: The figure layout has changed to tight
  self._figure.tight_layout(*args, **kwargs)
```



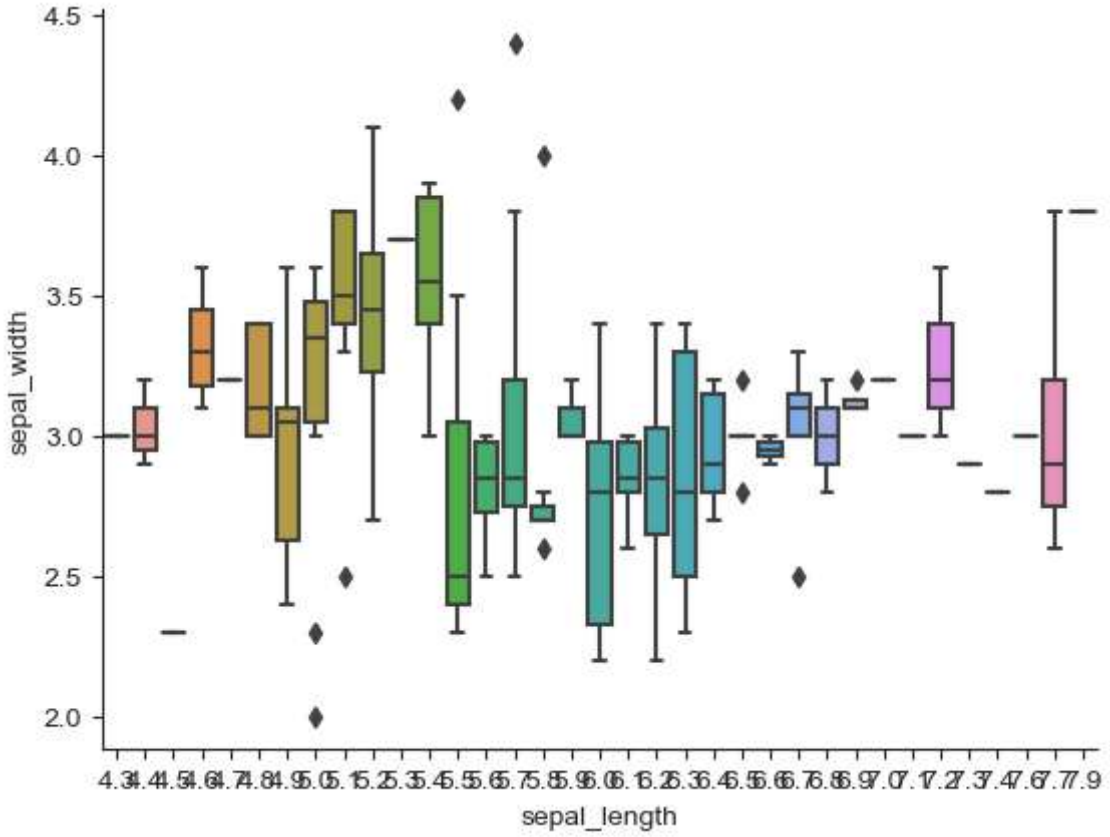
In [94]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.barplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



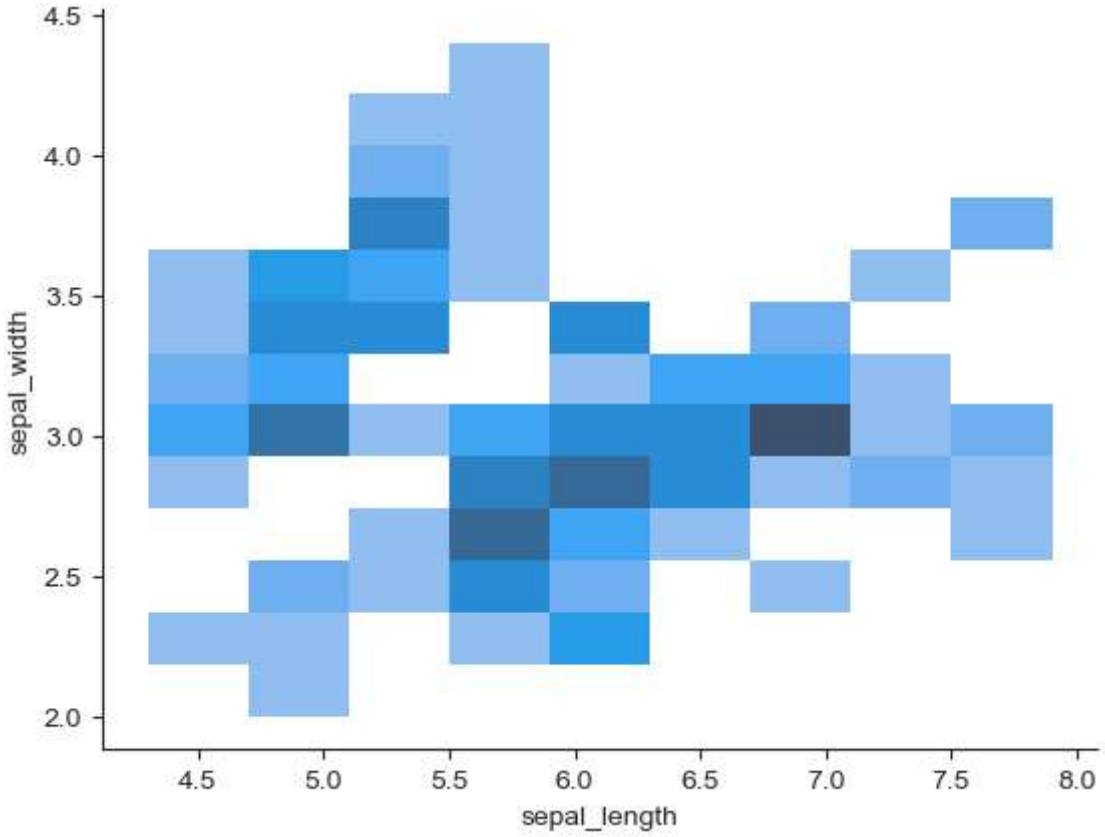
In [95]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.boxplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



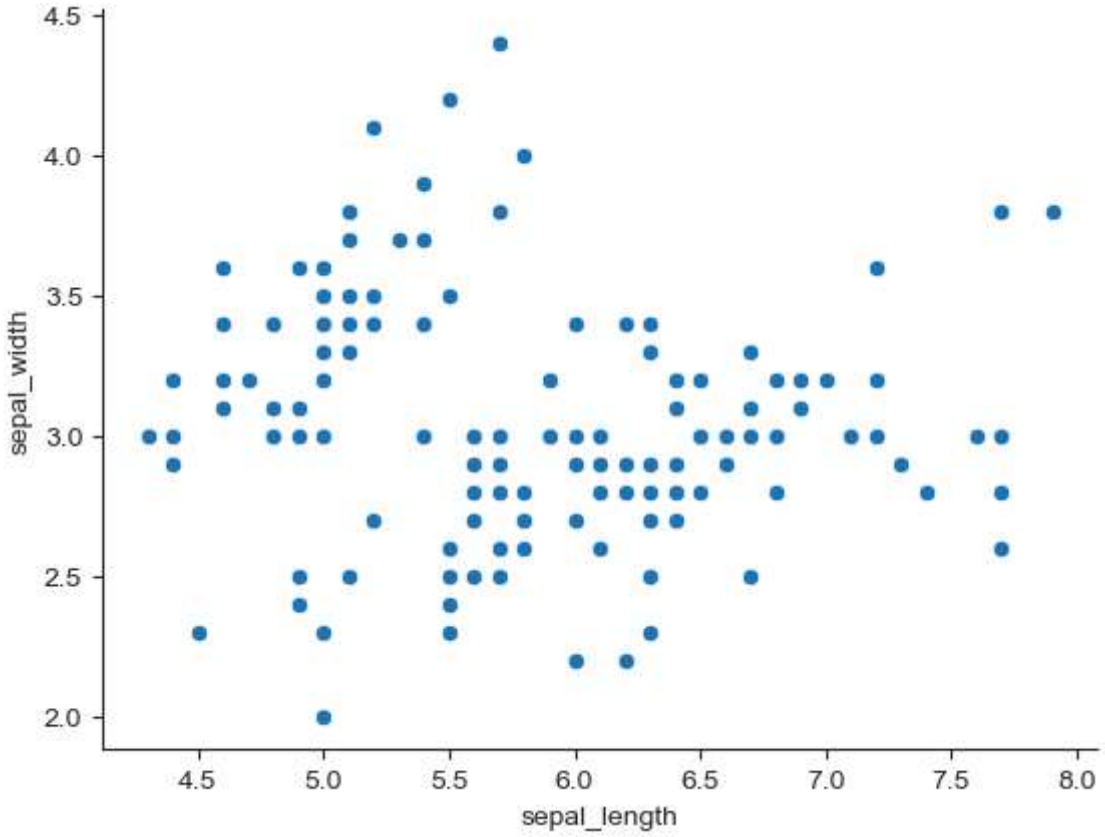
In [96]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.histplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



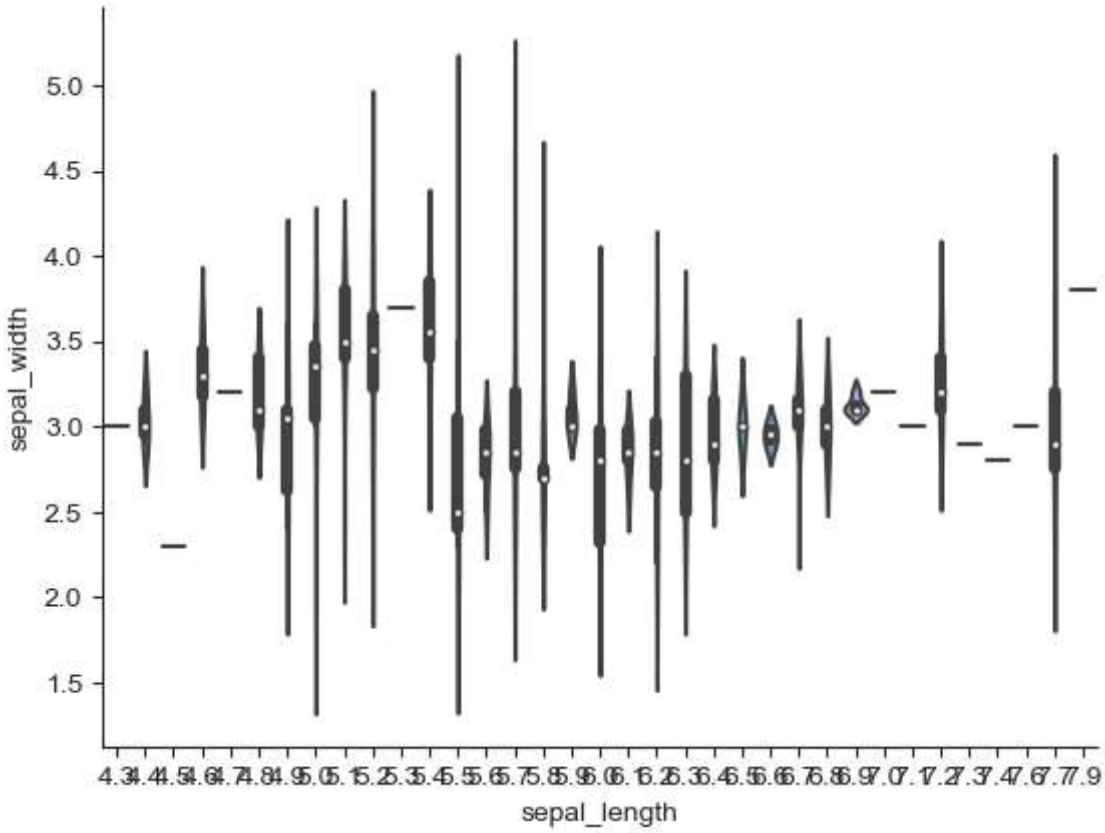
In [97]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.scatterplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



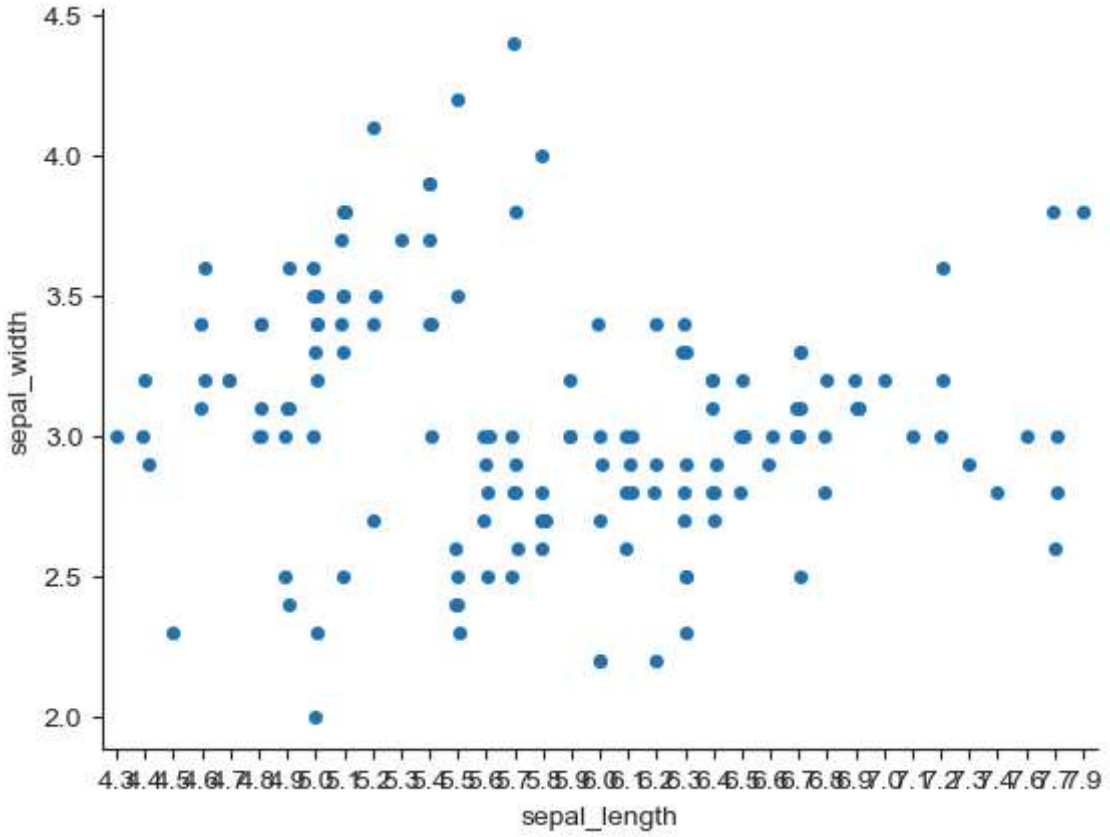
In [99]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.violinplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



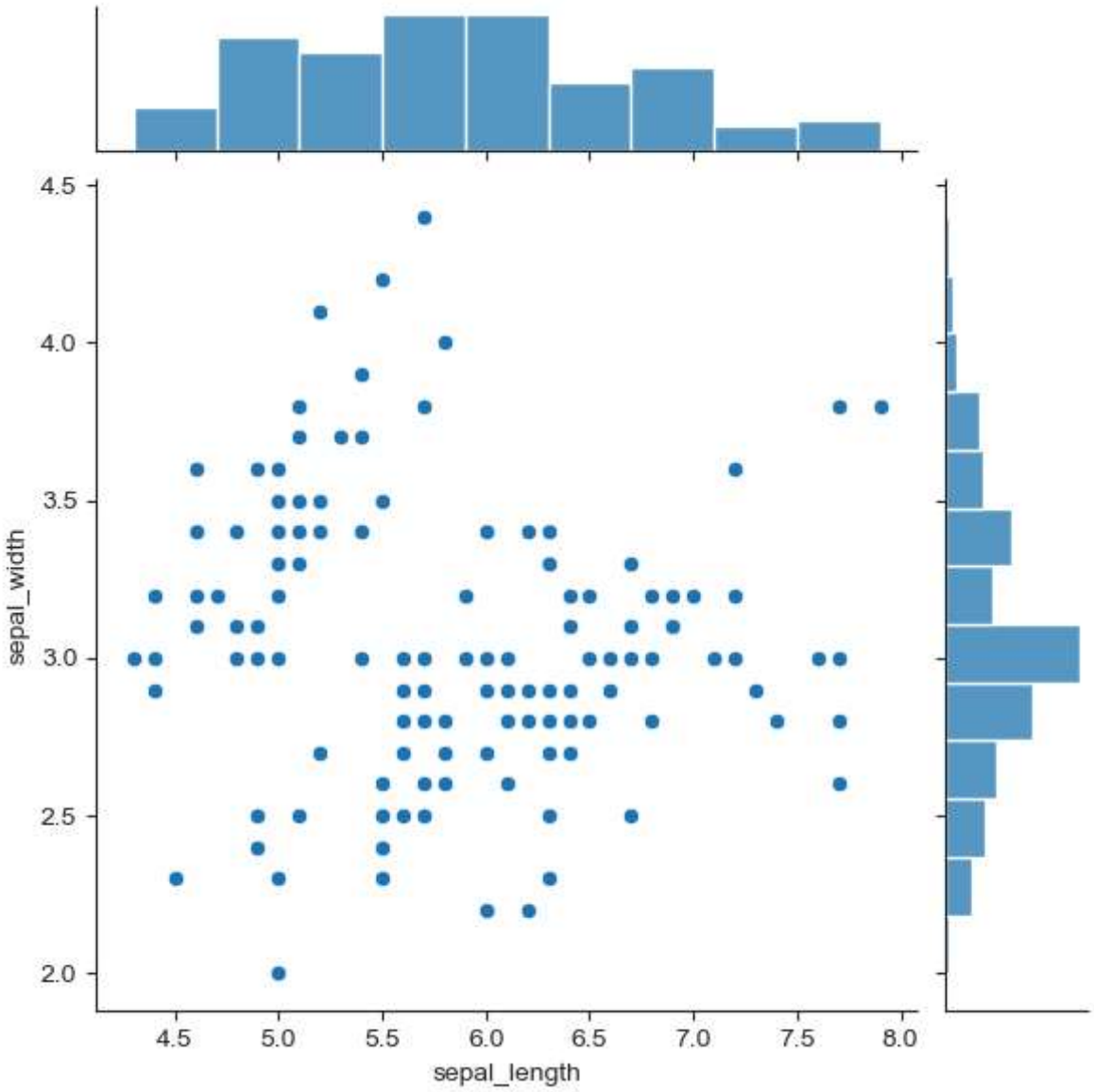
In [100]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.stripplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



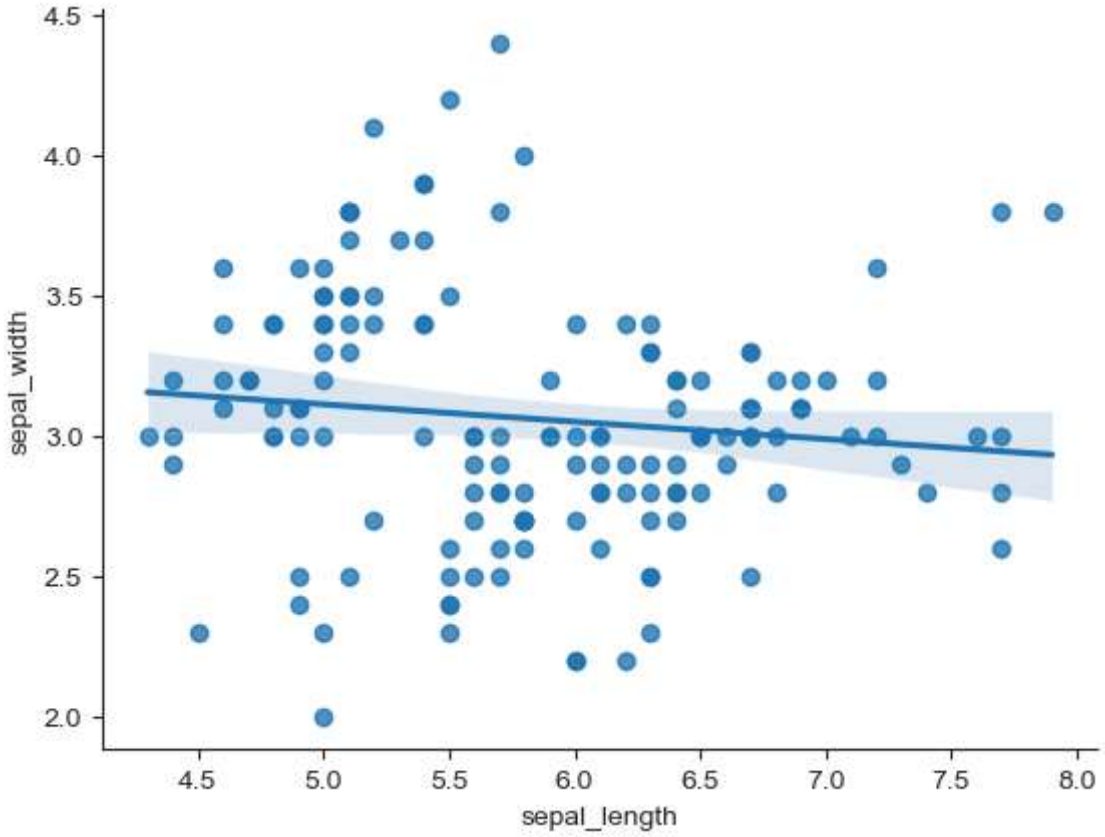
In [112]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.jointplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



In [120]:

```
# importing packages
import seaborn as sns
import matplotlib.pyplot as plt

# loading dataset
data = sns.load_dataset("iris")

# draw lineplot
sns.regplot(x="sepal_length", y="sepal_width", data=data)

# changing the theme to dark
sns.despine()

```



In [ ]:

```
1
```