

(a) Display dataset information

Dataset Information:

```
<class 'pandas.core.frame.DataFrame'>
```

RangeIndex: 150 entries, 0 to 149

Data columns (total 5 columns):

#	Column	Non-Null Count	Dtype
0	sepal length (cm)	150 non-null	float64
1	sepal width (cm)	150 non-null	float64
2	petal length (cm)	150 non-null	float64
3	petal width (cm)	150 non-null	float64
4	target	150 non-null	int64

dtypes: float64(4), int64(1)

memory usage: 6.0 KB

None

(b) Find the number of missing values

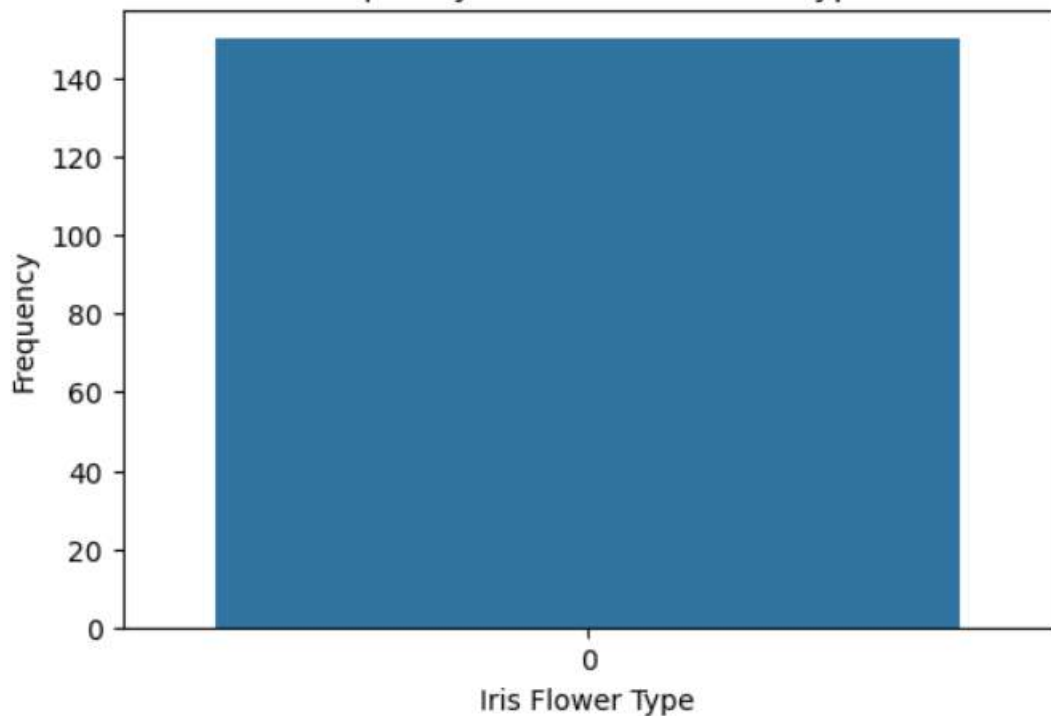
Number of Missing Values in Each Column:

sepal length (cm)	0
sepal width (cm)	0
petal length (cm)	0
petal width (cm)	0
target	0

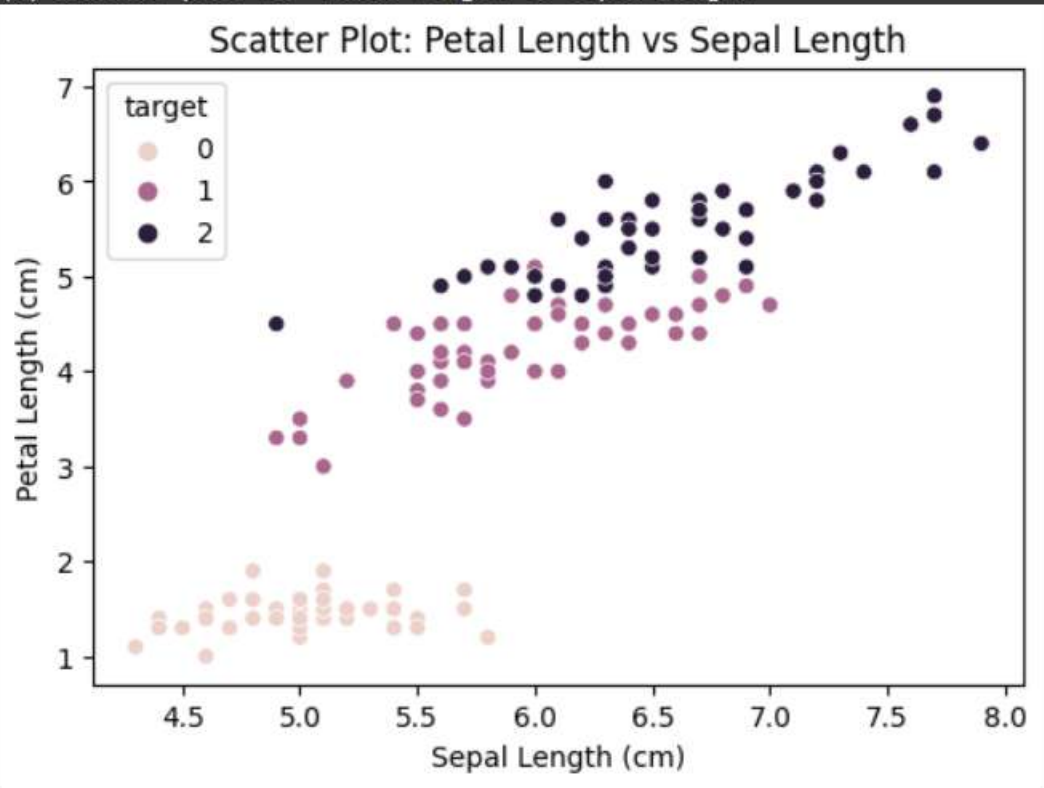
dtype: int64

(c) Plot bar chart for class label frequency

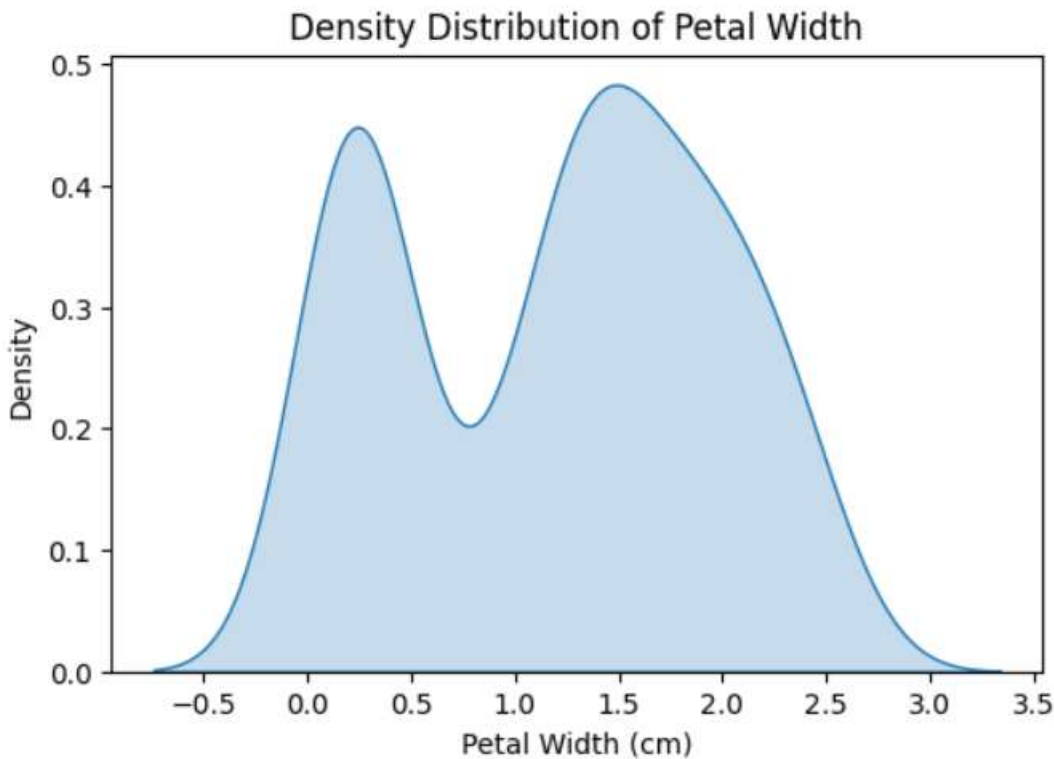
Frequency of Each Iris Flower Type

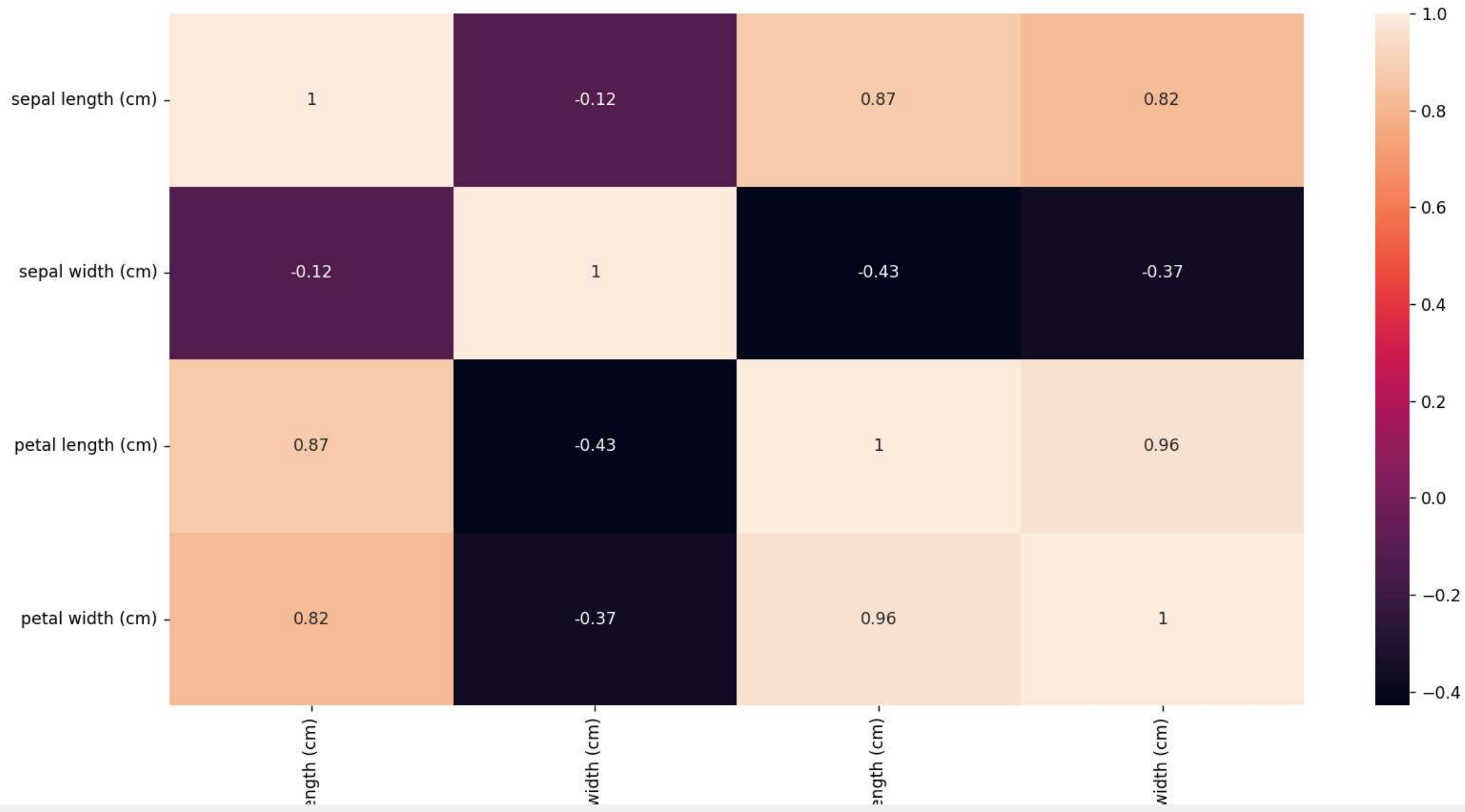


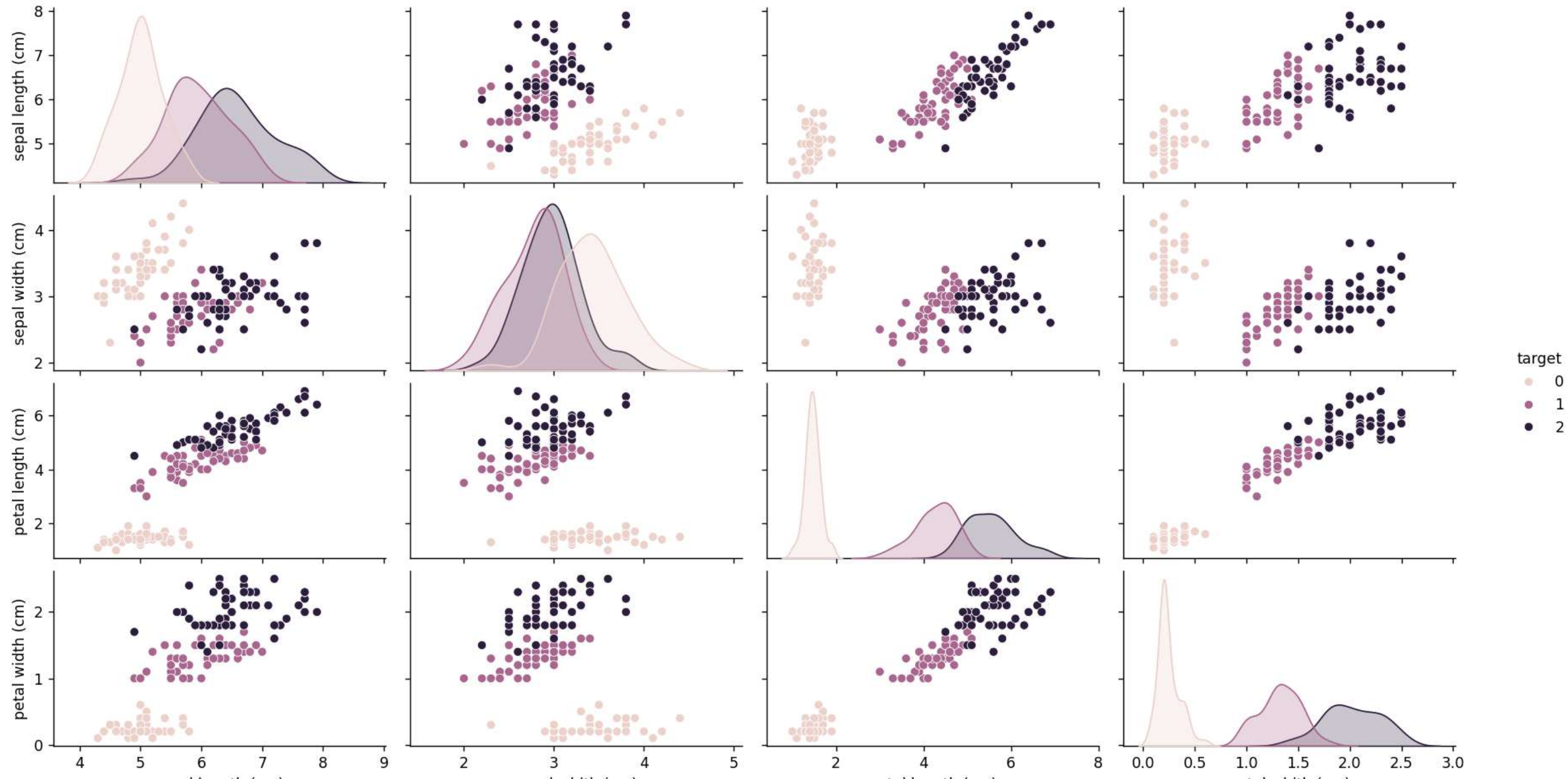
(d) Scatter plot for Petal Length vs Sepal Length



(e) Plot density distribution for Petal width







(h) Compute basic statistics for numeric features

Statistics for Numeric Features:

	sepal length (cm)	sepal width (cm)	petal length (cm)	\
count	150.000000	150.000000	150.000000	
mean	5.843333	3.057333	3.758000	
std	0.828066	0.435866	1.765298	
min	4.300000	2.000000	1.000000	
25%	5.100000	2.800000	1.600000	
50%	5.800000	3.000000	4.350000	
75%	6.400000	3.300000	5.100000	
max	7.900000	4.400000	6.900000	

	petal width (cm)	target
count	150.000000	150.000000
mean	1.199333	1.000000
std	0.762238	0.819232
min	0.100000	0.000000
25%	0.300000	0.000000
50%	1.300000	1.000000
75%	1.800000	2.000000
max	2.500000	2.000000

