

```
import pandas as pd
import seaborn as sb
import matplotlib.pyplot as plt
```

```
iris_d = pd.read_csv("/content/preprocessed.csv")
```

```
iris_d.head()
```

	Unnamed: 0	Total_Stops	Price	Journey_day	Journey_month
Dep_hour \					
0	0	0.0	3897	24	3
22					
1	1	2.0	7662	1	5
5					
2	2	2.0	13882	9	6
9					
3	3	1.0	6218	12	5
18					
4	4	1.0	13302	1	3
16					

	Dep_min	Arrival_hour	Arrival_min	Duration_hours	...	\
0	20	1	10	2	...	
1	50	13	15	7	...	
2	25	4	25	19	...	
3	5	23	30	5	...	
4	50	21	35	4	...	

	Vistara	Premium economy	Chennai	Delhi	Kolkata	Mumbai	Cochin
Delhi.1 \							
0		0	0	0	0	0	0
0							
1		0	0	0	1	0	0
0							
2		0	0	1	0	0	1
0							
3		0	0	0	1	0	0
0							
4		0	0	0	0	0	0
0							

	Hyderabad	Kolkata.1	New Delhi
0	0	0	1
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	1

```
[5 rows x 31 columns]
```

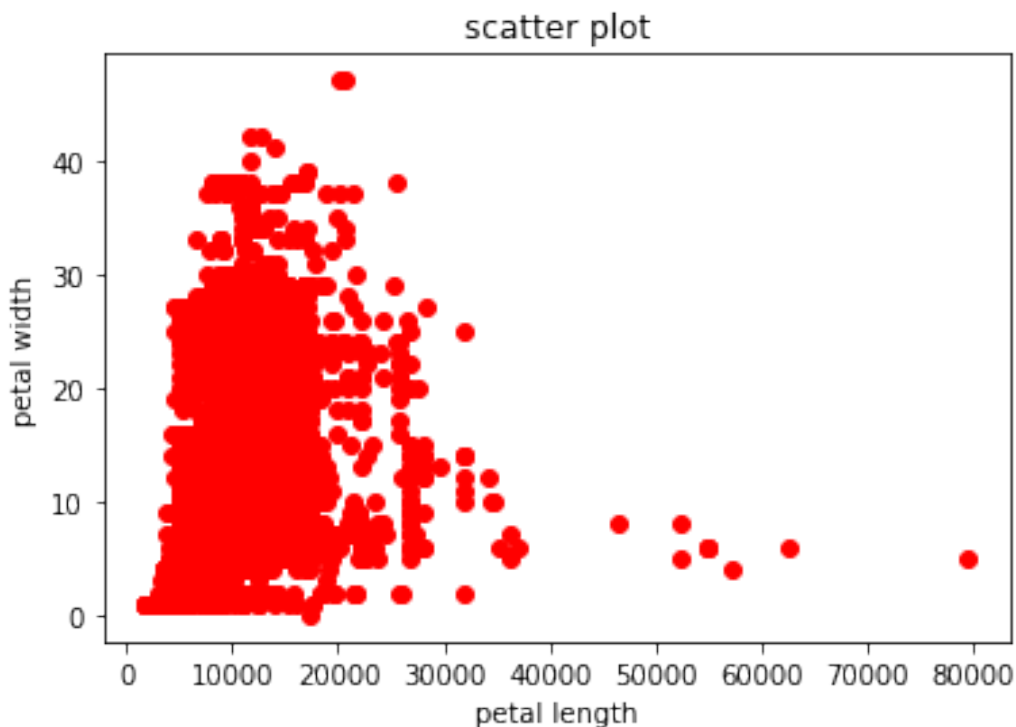
```
iris_d.columns
```

```
Index(['Unnamed: 0', 'Total_Stops', 'Price', 'Journey_day',
      'Journey_month',
      'Dep_hour', 'Dep_min', 'Arrival_hour', 'Arrival_min',
      'Duration_hours',
      'Duration_mins', 'Air India', 'GoAir', 'IndiGo', 'Jet Airways',
      'Jet Airways Business', 'Multiple carriers',
      'Multiple carriers Premium economy', 'SpiceJet', 'Trujet',
      'Vistara',
      'Vistara Premium economy', 'Chennai', 'Delhi', 'Kolkata',
      'Mumbai',
      'Cochin', 'Delhi.1', 'Hyderabad', 'Kolkata.1', 'New Delhi'],
      dtype='object')
```

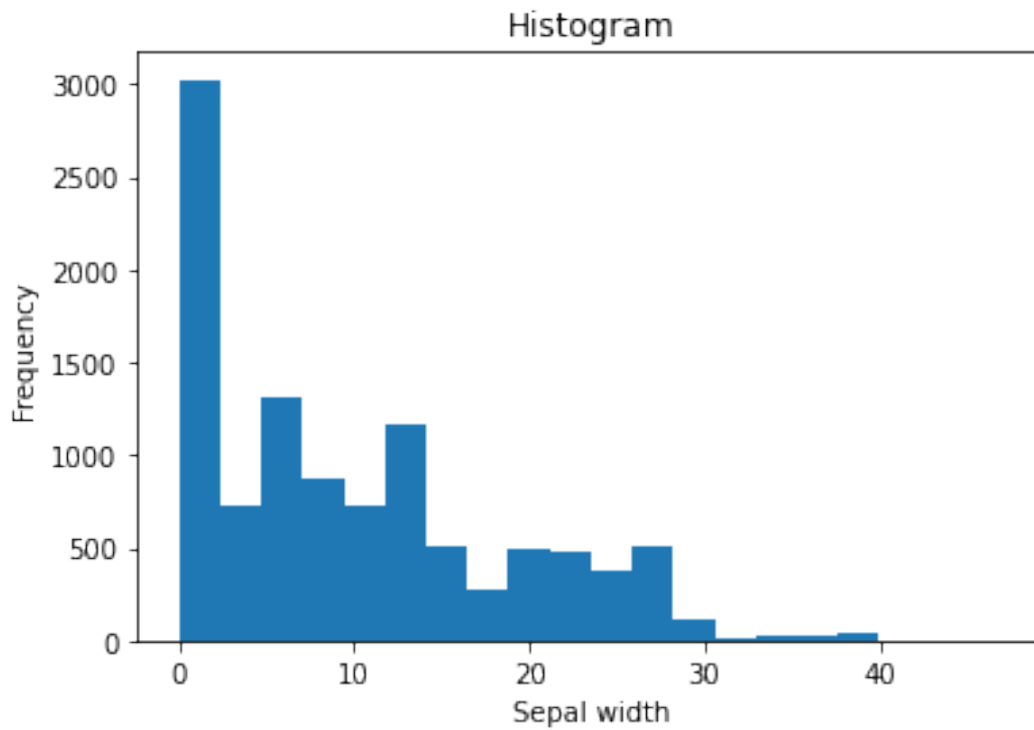
```
iris_d.shape
```

```
(10683, 31)
```

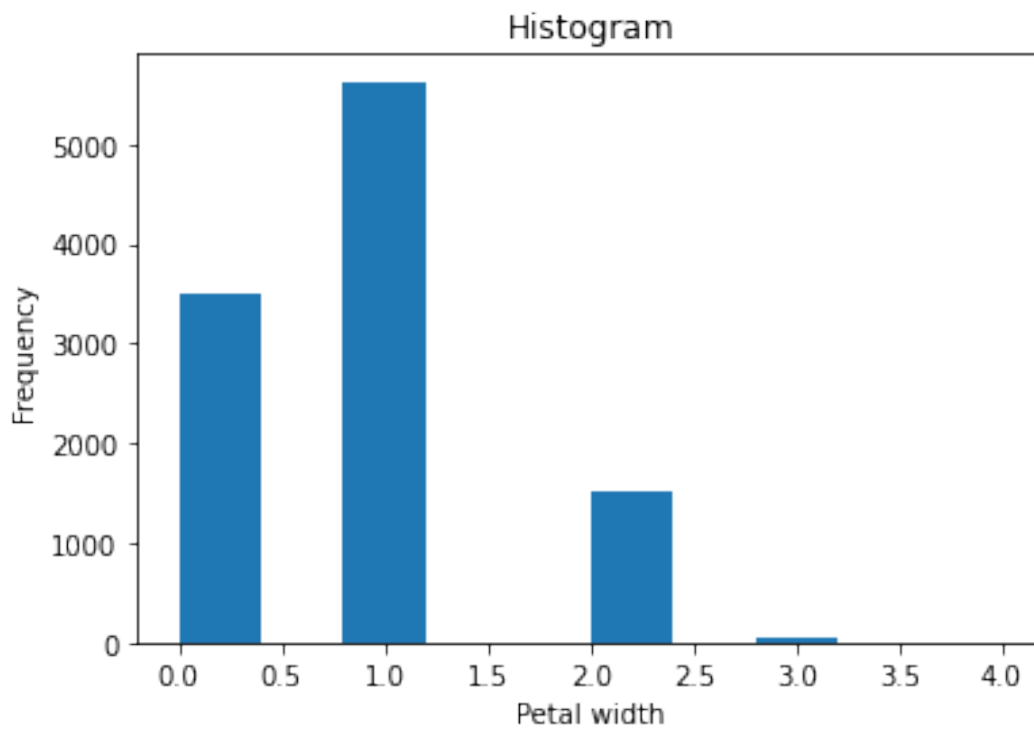
```
plt.scatter(iris_d['Price'],iris_d['Duration_hours'], color='red')
plt.title("scatter plot")
plt.xlabel("petal length")
plt.ylabel("petal width")
plt.show()
```



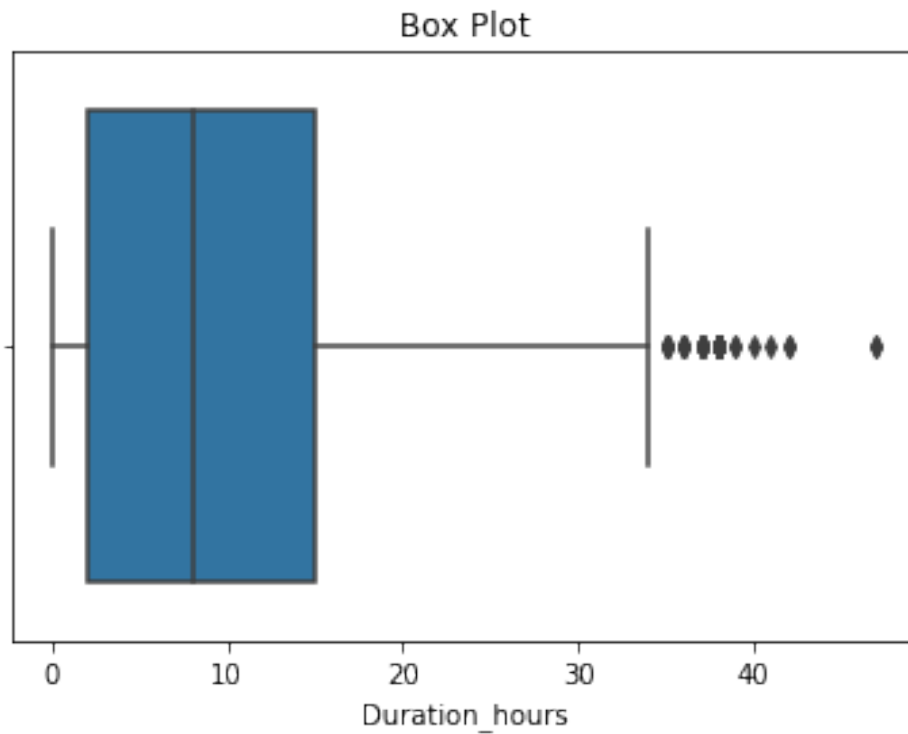
```
plt.hist(iris_d['Duration_hours'], bins=20)
plt.title("Histogram")
plt.xlabel("Sepal width")
plt.ylabel("Frequency")
plt.show()
```



```
plt.hist(iris_d['Total_Stops'], bins=10)
plt.title("Histogram")
plt.xlabel("Petal width")
plt.ylabel("Frequency")
plt.show()
```



```
sb.boxplot(x="Duration_hours", data=iris_d)
plt.title("Box Plot")
Text(0.5, 1.0, 'Box Plot')
```



```
sb.boxplot(x="Total_Stops", data=iris_d)
plt.title("Box Plot")
Text(0.5, 1.0, 'Box Plot')
```

Box Plot

