

DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)
Shahbad Daultpur, Bawana Road, Delhi 110042

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CO327: MACHINE LEARNING LAB FILE

Submitted To:

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Submitted By:

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2K22/EC/49
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Code & OUTPUT

```
In [1]: print("Experiment No 01 : To study about numpy, pandas and matplotlib libraries in python")
```

Experiment No 01 : To study about numpy, pandas and matplotlib libraries in python.

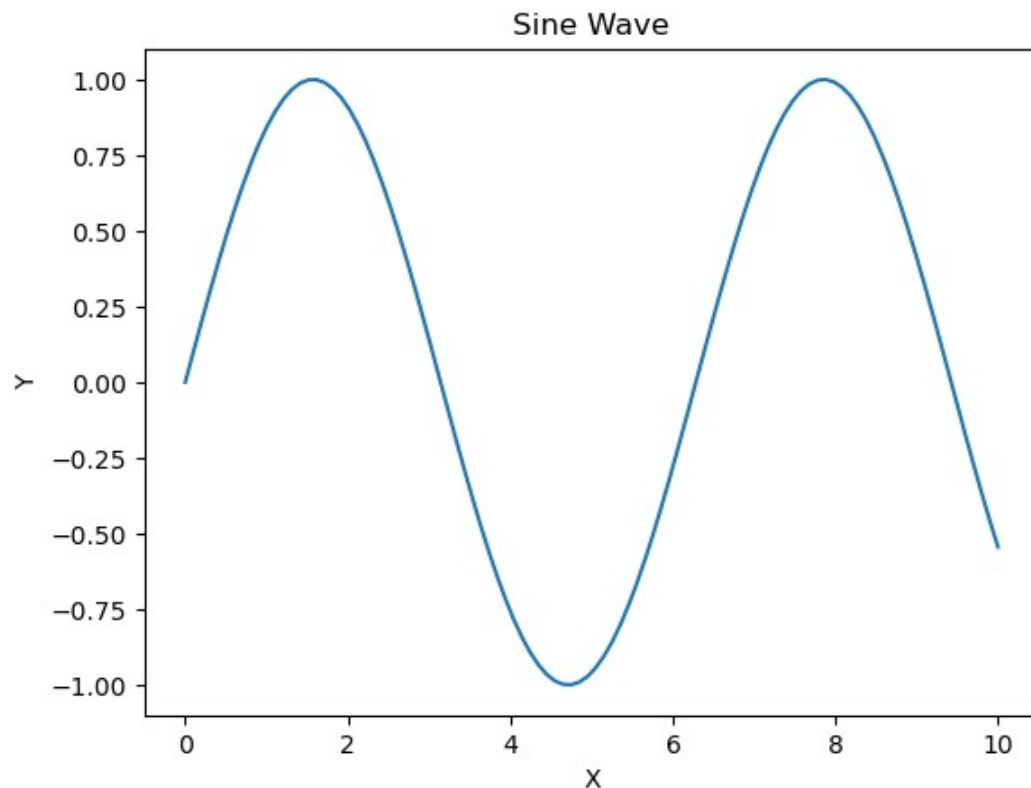
```
In [3]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
array = np.array([1,2,3,4,5])
print("OUTPUT:\n\n")
print("Numpy Array :",array)
data={'Name':['John','Anna','Peter','Linda'],
      'Age':[28,24,35,32]}
df = pd.DataFrame(data)
print("Pandas DataFrame:\n",df)
x = np.linspace(0,10,100)
y=np.sin(x)
plt.plot(x,y)
plt.title("Sine Wave")
plt.xlabel("X")
plt.ylabel("Y")
```

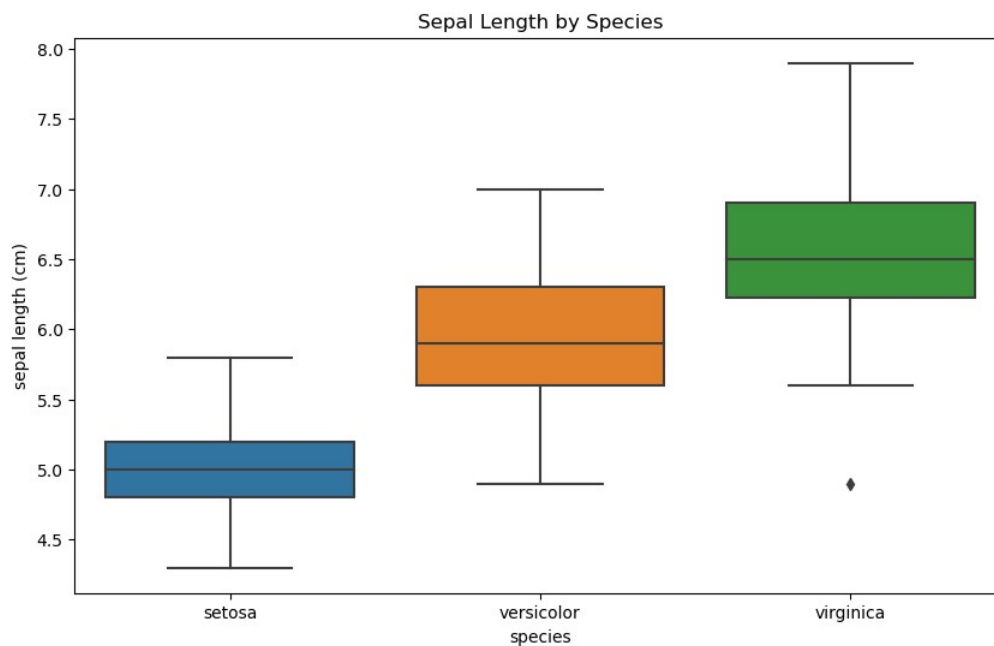
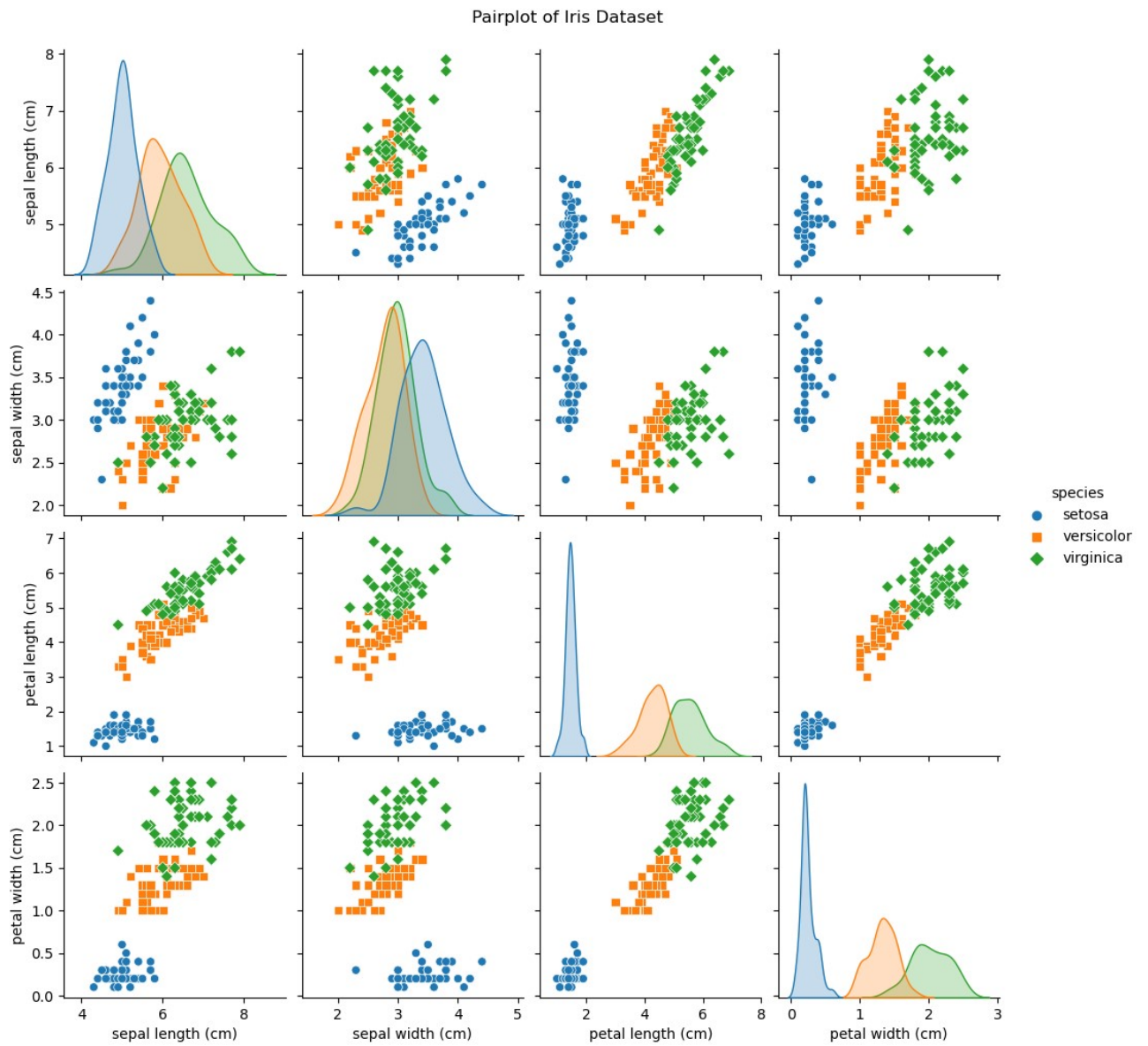
OUTPUT:

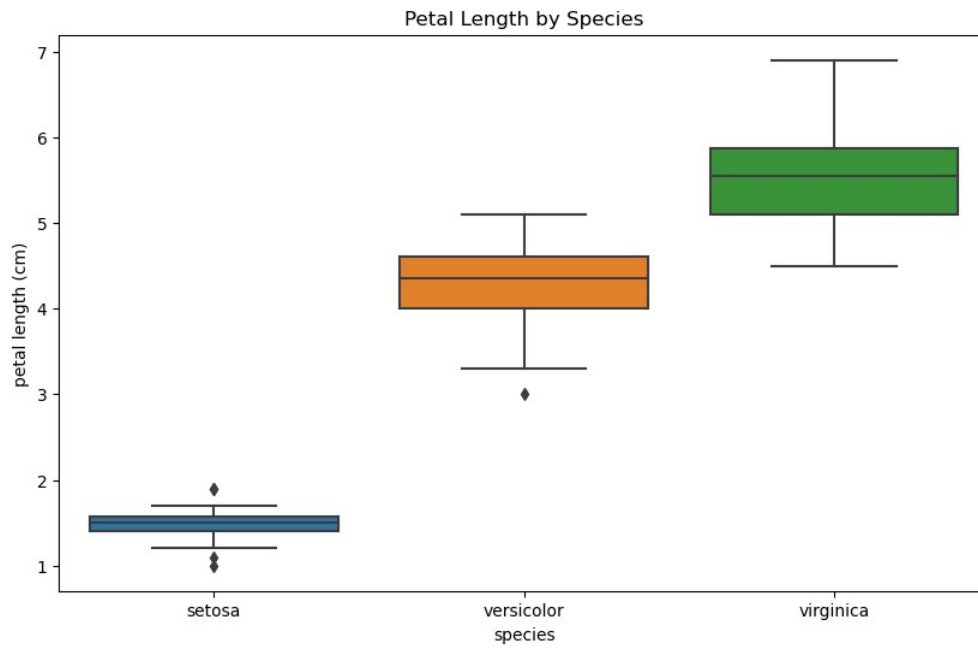
Numpy Array : [1 2 3 4 5]

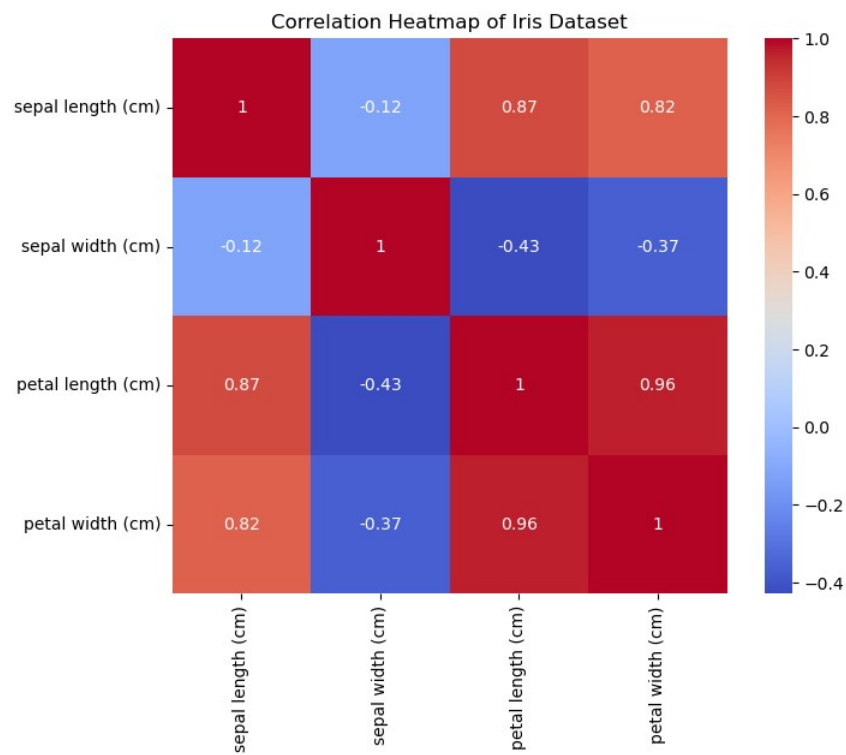
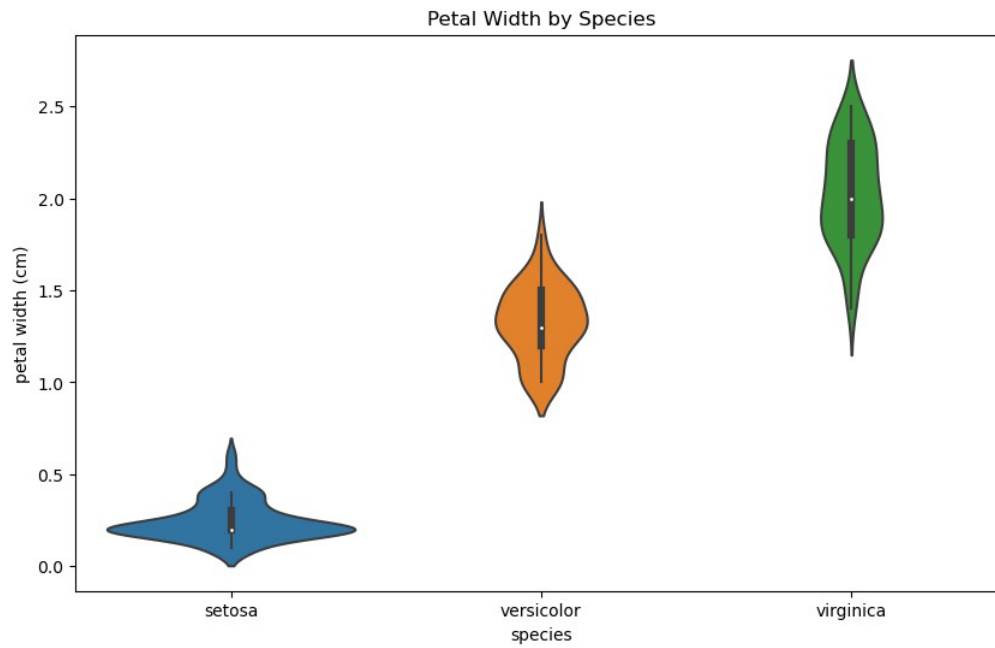
Pandas DataFrame:

	Name	Age
0	John	28
1	Anna	24
2	Peter	35
3	Linda	32

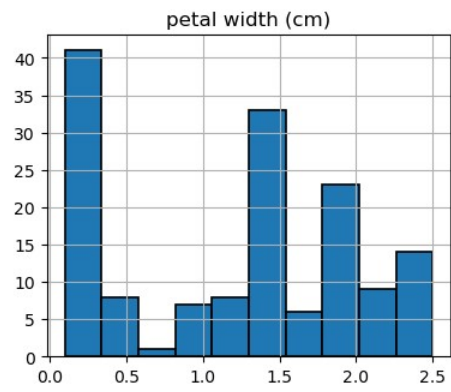
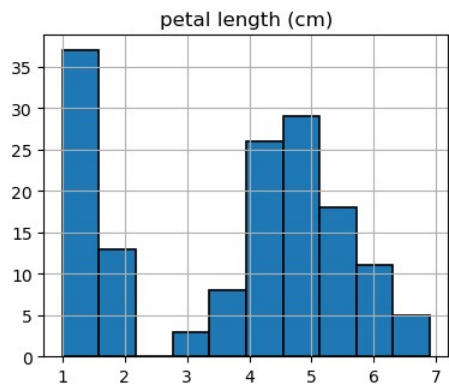
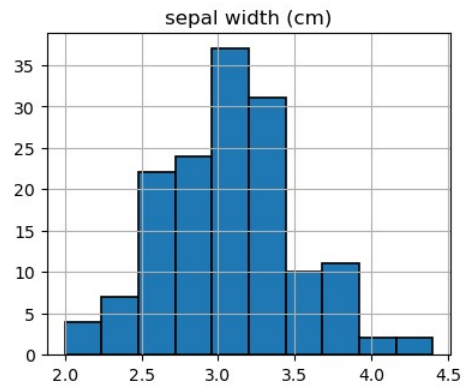
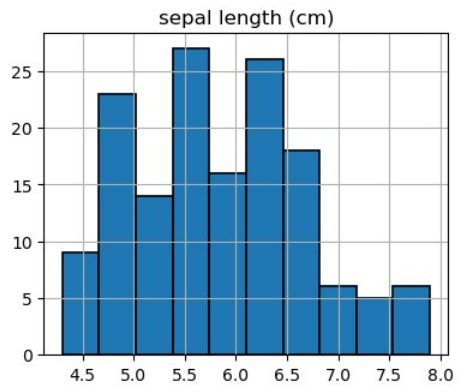


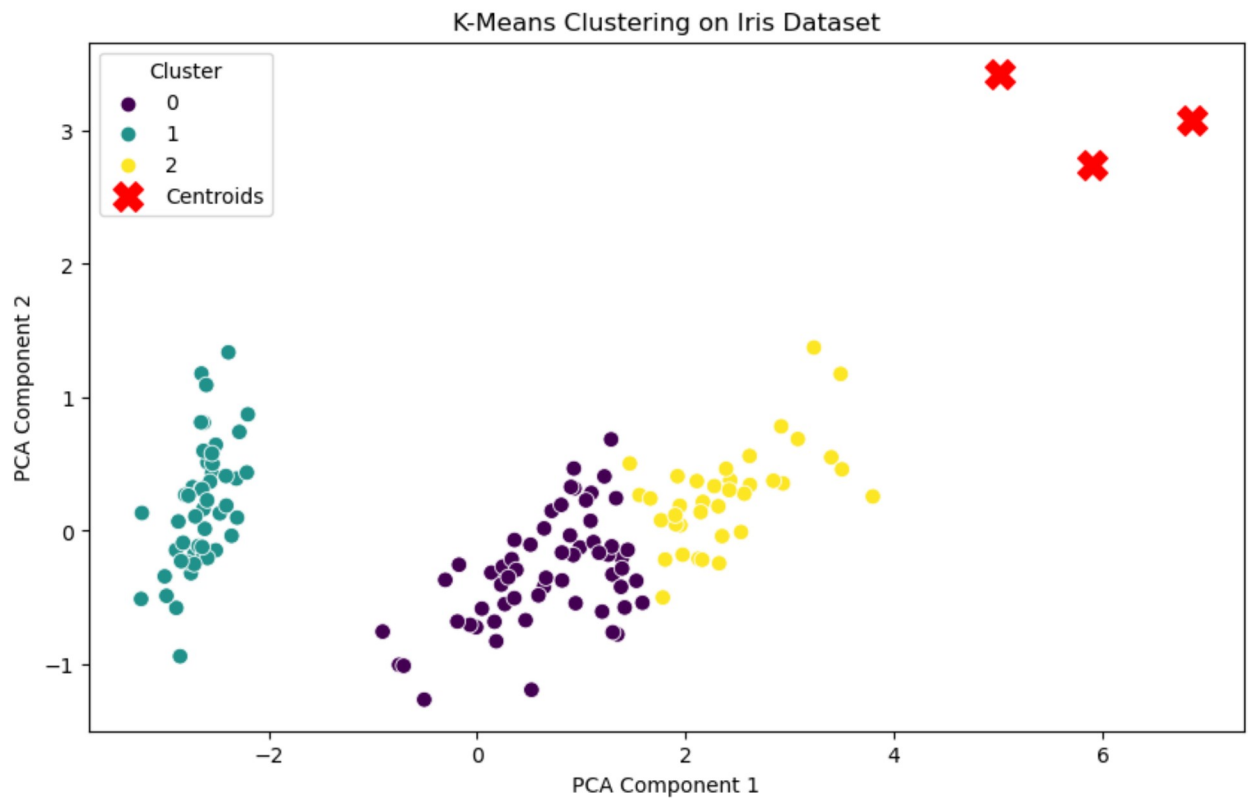






Feature Distributions

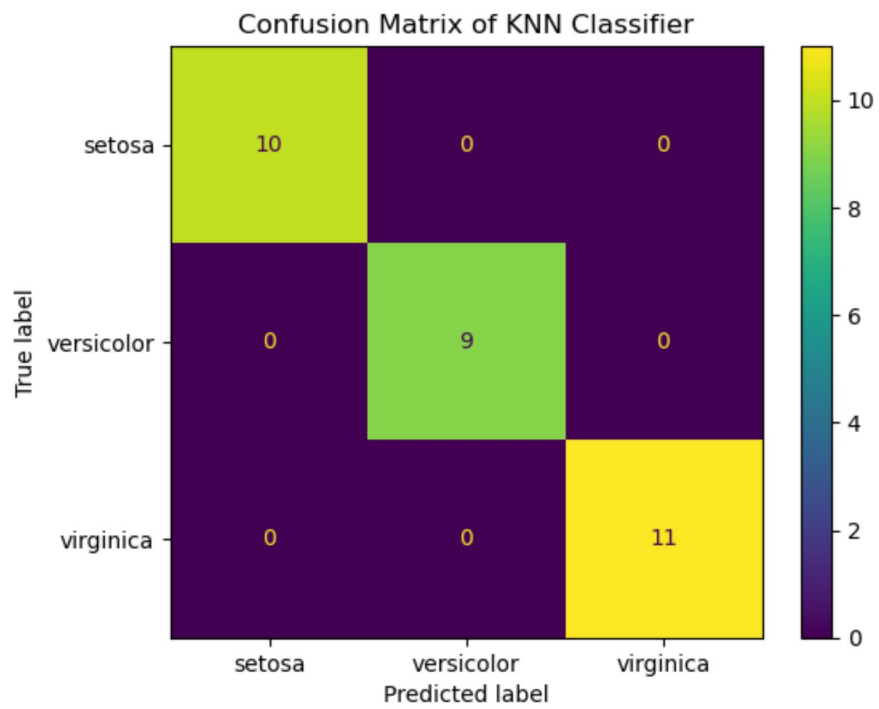




Confusion Matrix:

```
[[ 0 50  0]
 [48  0  2]
 [14  0 36]]
```

In []:



In []: