Experiment 6

Student Name:Rajiv Paul **UID: 20BCS1812**
Branch:CSE **Section/Group: 20BCS_WM-702A**
Semester: 5th **Date of Performance: 26/10/2022**
Subject Name: Machine Learning Lab **Subject Code: 20CSP-317**

Aim/Overview of the practical:

   Implement K-Nearest Neighbour on any dataset.

Task to be done:

   To implement K-Nearest Neighbour on any data set.

Apparatus/Simulator Used:

- **Google Collab**

- **Python**

- **.csv file**

Code and Output:

```python
import pandas as pd
from sklearn import datasets
from sklearn.neighbors import KNeighborsClassifier
iris=datasets.load_iris()
x=iris.data
y=iris.target
print(x[0],y[0])
knn=KNeighborsClassifier()
knn.fit(x,y)
result=knn.predict([[1.7,1.9,9.7,7.9]])
print(result)
```

```
[5.1 3.5 1.4 0.2] 0
[2]
```

Learning outcomes (What I have learnt):

    1. Learnt how to implement K-Nearest Neighbour.

    2. Learnt about numpy, seaborn, pandas libraries.

    3. Learnt how to analyse in K-Nearest Neighbour.

Evaluation Grid :

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Student Performance (Conduct of experiment) objectives/Outcomes.		12
2.	Viva Voce		10
3.	Submission of Work Sheet (Record)		8
	Total		30