READ THE DATA SET

In python, the pandas module allows us to load Data Frames from external files and work on them. The dataset can be in different types of files.

USING read_csv():

1. We will read the text file with pandas using the read_csv() function.

2. Along with the text file, we also pass separator as a single space (' ') for the space character because, for text files, the space character will separate each field.

3. There are three parameters we can pass to the read_csv() function.

SYNTAX:

data=pandas.read_csv('filename.txt', sep=' ', header=None, names=["Column1", "Column2"])

PARAMETERS:

- **filename.txt:** As the name suggests it is the name of the text file from which we want to read data.
- **sep:** It is a separator field. In the text file, we use the space character(' ') as the separator.
- **header:** This is an optional field. By default, it will take the first line of the text file as a header. If we use header=None then it will create the header.
- **names:** We can assign column names while importing the text file.

READING DATA SET IN PANDAS:

```
#Import Dataset
ds= pd.read_csv("dataset_website.csv")
ds.head()
```

Sample output of the dataset rows is shown below.

	index	having_IPhaving_IP_Address	URLURL_Length	Shortining_Service	having_At_Symbol	double_slash_redirecting	Prefix_Suffix	having_Sub_Domain
0	1	-1	1	1	1	-1	-1	-1
1	2	1	1	1	1	1	-1	0
2	3	1	0	1	1	1	-1	-1
3	4	1	0	1	1	1	-1	-1
4	5	1	0	-1	1	1	-1	1

5 rows × 32 columns

PROGRAM TO READ THE DATASET:

Read Text Files with Pandas using read_csv()

# importing pandas
import pandas as pd

# read text file into pandas DataFrame
df = pd.read_csv("gfg.txt", sep=" ")

# display DataFrame
print(df)

OUTPUT:

```
        Team1    Team2
0   Batsman   Bolwer
1     Rohit   Bumrah
2     Virat    Siraj
3     Rahul    Shami
4     Dhoni   Ashwin
5     Raina   Jadeja
```