

PROG 2(b)

AIM:

To read a CSV file and perform the following operations:

- display the description of the file
- display the file column wise
- display the first five entries of the file
- display the last five entries of the file
- display the size of particular column

SOURCE:

Iris.csv:

<https://gist.githubusercontent.com/curran/a08a1080b88344b0c8a7/raw/0e7a9b0a5d22642a06d3d5b9bcbad9890c8ee534/iris.csv>

SOURCE CODE:

```
import pandas as pd
df = pd.read_csv("./iris.csv")
print(f"discribing iris.csv\n{df.describe()}")
print(f"displaying coloumn 'sepal.length'\n{df['sepal.length']}")
print(f"first 5 entries are \n{df.head(5)}")
print(f"last 5 entries are \n{df.tail(5)}")
print(f"length of a particular column 'sepal.length' is len(df['sepal.length'])")
```

OUTPUT:

```
PS D:\ML lab> python -u "d:\ML lab\lab2b.py"
      sepal.length  sepal.width  petal.length  petal.width
count    150.000000    150.000000    150.000000    150.000000
mean       5.843333     3.057333     3.758000     1.199333
std        0.828066     0.435866     1.765298     0.762238
min        4.300000     2.000000     1.000000     0.100000
25%        5.100000     2.800000     1.600000     0.300000
50%        5.800000     3.000000     4.350000     1.300000
75%        6.400000     3.300000     5.100000     1.800000
max        7.900000     4.400000     6.900000     2.500000

0      5.1
1      4.9
2      4.7
3      4.6
4      5.0
...
145    6.7
146    6.3
147    6.5
148    6.2
149    5.9
Name: sepal.length, Length: 150, dtype: float64
      sepal.length  sepal.width  petal.length  petal.width  variety
0      5.1          3.5          1.4          0.2  Setosa
1      4.9          3.0          1.4          0.2  Setosa
2      4.7          3.2          1.3          0.2  Setosa
3      4.6          3.1          1.5          0.2  Setosa
4      5.0          3.6          1.4          0.2  Setosa
      sepal.length  sepal.width  petal.length  petal.width  variety
145      6.7          3.0          5.2          2.3  Virginica
146      6.3          2.5          5.0          1.9  Virginica
147      6.5          3.0          5.2          2.0  Virginica
148      6.2          3.4          5.4          2.3  Virginica
149      5.9          3.0          5.1          1.8  Virginica
147      6.5          3.0          5.2          2.0  Virginica
148      6.2          3.4          5.4          2.3  Virginica
149      5.9          3.0          5.1          1.8  Virginica
length of a particular column 'sepal.length' is 150
```

RESULT:

Thus the program was executed and output was verified successfully.