

Ex. No.: 3**Write a Program for Descriptive Statistics****AIM:**

To write a Python program to calculate the Descriptive Statistics by using the given series and csv files.

(i) Program (By using the given series):

```
import pandas as pd
speed=pd.Series([99,86,87,88,111,86,103,87,94,78,77,85,86])
DS=speed.describe()
print("Descriptive Statistics:\n", DS)
```

Output:

Descriptive Statistics:

```
count    13.000000
mean      89.769231
std        9.636336
min       77.000000
25%       86.000000
50%       87.000000
75%       94.000000
max      111.000000
dtype: float64
```

(ii) Program (By using the csv files):

```
import pandas as pd
df=pd.read_csv("Book.csv", header=0, sep=",")
pd.set_option('display.max_columns',None)
pd.set_option('display.max_rows',None)
print(df.describe())
```

Output:

	S. No.	Duration	Pulse	Maxpule	calories
count	11.000000	11.000000	11.000000	11.000000	11.000000
mean	6.000000	52.272727	121.818182	163.818182	521.363636
std	3.316625	7.156688	12.742199	90.766534	85.054421

min	1.000000	42.000000	101.000000	123.000000	405.000000
25%	3.500000	46.000000	111.500000	124.500000	451.000000
50%	6.000000	54.000000	123.000000	142.000000	546.000000
75%	8.500000	56.500000	128.500000	151.000000	559.000000
max	11.000000	65.000000	145.000000	435.000000	664.000000