Data Science And Big Data Analytics Practical 3(2)

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Problem Statement:-

Write a Python program to display some basic statistical details like percentile, mean,

standard deviation etc. of the species of 'Iris-setosa', 'Iris-versicolor' and 'Iris-

versicolor' of iris.csv dataset.

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```python
In [26]: import pandas as pd
         url_link = 'https://raw.githubusercontent.com/DeBugg14/te-sppu-lab/main/Data-Science/Prac3/iris.csv'
         data = pd.read_csv(url_link)
```

```python
In [27]: print('Iris-setosa')
         setosa = data['variety'] == 'Setosa'
         print(data[setosa].describe())
```

```
Iris-setosa
       sepal.length  sepal.width  petal.length  petal.width
count      50.00000    50.000000     50.000000    50.000000
mean        5.00600     3.428000      1.462000     0.246000
std         0.35249     0.379064      0.173664     0.105386
min         4.30000     2.300000      1.000000     0.100000
25%         4.80000     3.200000      1.400000     0.200000
50%         5.00000     3.400000      1.500000     0.200000
75%         5.20000     3.675000      1.575000     0.300000
max         5.80000     4.400000      1.900000     0.600000
```

```python
In [28]: print('Iris-versicolor')
         setosa = data['variety'] == 'Versicolor'
         print(data[setosa].describe())
```

```
Iris-versicolor
       sepal.length  sepal.width  petal.length  petal.width
count     50.000000    50.000000     50.000000    50.000000
mean       5.936000     2.770000      4.260000     1.326000
std        0.516171     0.313798      0.469911     0.197753
min        4.900000     2.000000      3.000000     1.000000
25%        5.600000     2.525000      4.000000     1.200000
50%        5.900000     2.800000      4.350000     1.300000
75%        6.300000     3.000000      4.600000     1.500000
max        7.000000     3.400000      5.100000     1.800000
```

```python
In [29]: print('Iris-virginica')
         setosa = data['variety'] == 'Virginica'
         print(data[setosa].describe())
```

```
Iris-virginica
       sepal.length  sepal.width  petal.length  petal.width
count      50.00000    50.000000     50.000000     50.00000
mean        6.58800     2.974000      5.552000      2.02600
std         0.63588     0.322497      0.551895      0.27465
min         4.90000     2.200000      4.500000      1.40000
25%         6.22500     2.800000      5.100000      1.80000
50%         6.50000     3.000000      5.550000      2.00000
75%         6.90000     3.175000      5.875000      2.30000
max         7.90000     3.800000      6.900000      2.50000
```

```
In [ ]:
```