

## Assignment No 3B

```
import pandas as pd
import numpy as np
import io
import statistics

from google.colab import files
uploaded=files.upload()

<IPython.core.display.HTML object>

Saving Iris.csv to Iris.csv

df=pd.read_csv(io.BytesIO(uploaded['Iris.csv']))

print(df)
```

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	\
0	1	5.1	3.5	1.4	0.2	
1	2	4.9	3.0	1.4	0.2	
2	3	4.7	3.2	1.3	0.2	
3	4	4.6	3.1	1.5	0.2	
4	5	5.0	3.6	1.4	0.2	
..	...	...	...	...	...	
145	146	6.7	3.0	5.2	2.3	
146	147	6.3	2.5	5.0	1.9	
147	148	6.5	3.0	5.2	2.0	
148	149	6.2	3.4	5.4	2.3	
149	150	5.9	3.0	5.1	1.8	

  

	Species
0	Iris-setosa
1	Iris-setosa
2	Iris-setosa
3	Iris-setosa
4	Iris-setosa
..	...
145	Iris-virginica
146	Iris-virginica
147	Iris-virginica
148	Iris-virginica
149	Iris-virginica

```
[150 rows x 6 columns]

data = pd.read_csv("Iris.csv")
print('Iris-setosa')
setosa = data['Species'] == 'Iris-setosa'
print(data[setosa].describe())
```

```

print('\nIris-versicolor')
setosa = data['Species'] == 'Iris-versicolor'
print(data[setosa].describe())
print('\nIris-virginica')
setosa = data['Species'] == 'Iris-virginica'
print(data[setosa].describe())

```

#### Iris-setosa

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	50.00000	50.00000	50.00000	50.00000	50.00000
mean	25.50000	5.00600	3.41800	1.46400	0.24400
std	14.57738	0.35249	0.381024	0.173511	0.10721
min	1.00000	4.30000	2.30000	1.00000	0.10000
25%	13.25000	4.80000	3.12500	1.40000	0.20000
50%	25.50000	5.00000	3.40000	1.50000	0.20000
75%	37.75000	5.20000	3.67500	1.57500	0.30000
max	50.00000	5.80000	4.40000	1.90000	0.60000

#### Iris-versicolor

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	50.00000	50.00000	50.00000	50.00000	50.00000
mean	75.50000	5.93600	2.77000	4.26000	1.32600
std	14.57738	0.516171	0.313798	0.469911	0.197753
min	51.00000	4.90000	2.00000	3.00000	1.00000
25%	63.25000	5.60000	2.52500	4.00000	1.20000
50%	75.50000	5.90000	2.80000	4.35000	1.30000
75%	87.75000	6.30000	3.00000	4.60000	1.50000
max	100.00000	7.00000	3.40000	5.10000	1.80000

#### Iris-virginica

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	50.00000	50.00000	50.00000	50.00000	50.00000
mean	125.50000	6.58800	2.97400	5.55200	2.02600
std	14.57738	0.63588	0.322497	0.551895	0.27465
min	101.00000	4.90000	2.20000	4.50000	1.40000
25%	113.25000	6.22500	2.80000	5.10000	1.80000
50%	125.50000	6.50000	3.00000	5.55000	2.00000
75%	137.75000	6.90000	3.17500	5.87500	2.30000
max	150.00000	7.90000	3.80000	6.90000	2.50000