

Lab 1 – Data PreProcessing

1. Standard Scalar

Output:

```
Name: Jiya Hona
Symbol: 29097/078
Original Data:
  StudentID  Math  Science  English
0          1    78        65      80
1          2    88        75      85
2          3    60        50      55
3          4    90        78      92
4          5    55        48      58

Standard Scaled Data:
  StudentID  Math  Science  English
0          1  0.228347 -0.036002  0.171299
1          2  1.074075  0.864059  0.579153
2          3 -1.293964 -1.386094 -1.867972
3          4  1.243221  1.134077  1.150149
4          5 -1.716829 -1.566106 -1.623260
```

2. Min-Max

Output:

```
Name: Jiya Hona
Symbol: 29097/078
Original Data:
  StudentID  Math  Science  English
0          1    78        65      80
1          2    88        75      85
2          3    60        50      55
3          4    90        78      92
4          5    55        48      58

Normalized Scores (Min-Max Scaler):
  StudentID  Math  Science  English
0          1  0.657143  0.53125  0.675676
1          2  0.942857  0.84375  0.810811
2          3  0.142857  0.06250  0.000000
3          4  1.000000  0.93750  1.000000
4          5  0.000000  0.00000  0.081081
```