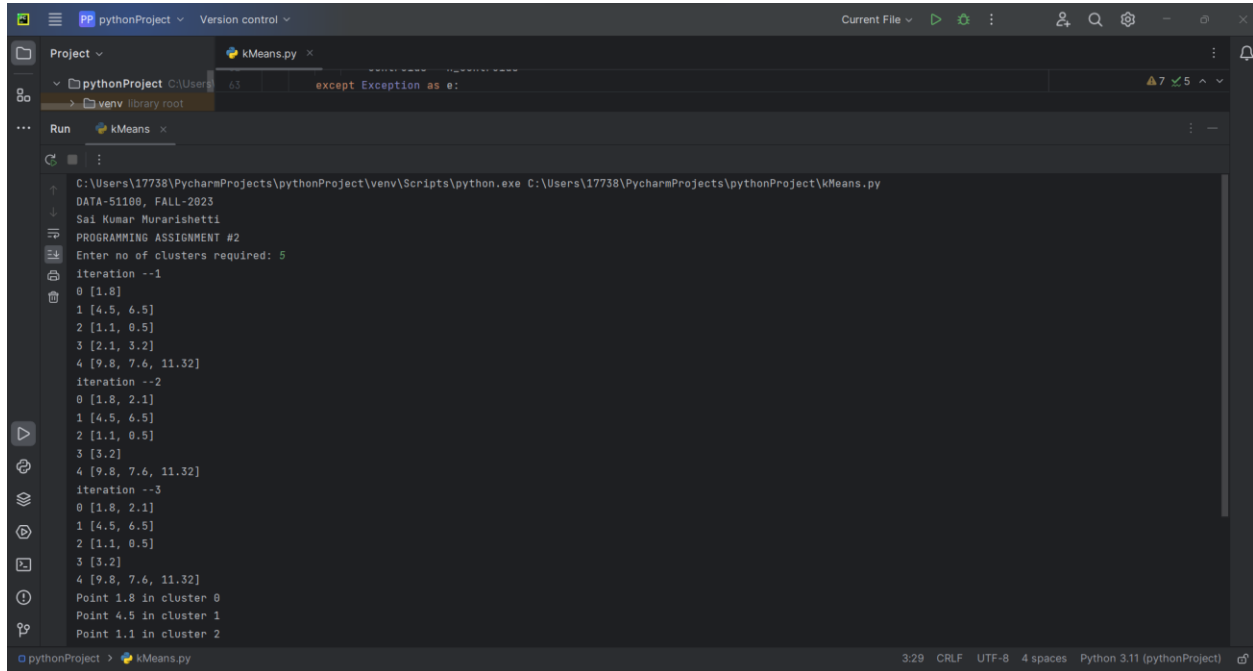
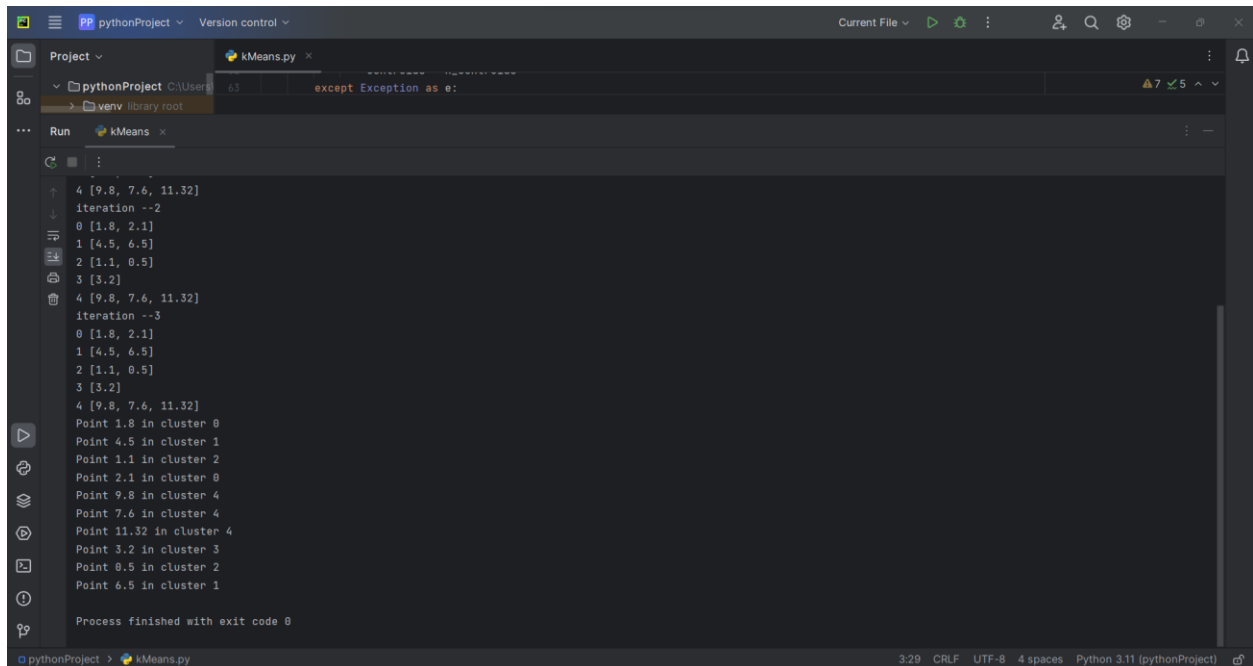


# Statistical Programming Assignment 2

Sai Kumar Murarishetti  
Lewis ID: L30079224



```
C:\Users\17738\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\17738\PycharmProjects\pythonProject\kMeans.py
DATA-51100, FALL-2023
Sai Kumar Murarishetti
PROGRAMMING ASSIGNMENT #2
Enter no of clusters required: 5
iteration --1
0 [1.8]
1 [4.5, 6.5]
2 [1.1, 0.5]
3 [2.1, 3.2]
4 [9.8, 7.6, 11.32]
iteration --2
0 [1.8, 2.1]
1 [4.5, 6.5]
2 [1.1, 0.5]
3 [3.2]
4 [9.8, 7.6, 11.32]
iteration --3
0 [1.8, 2.1]
1 [4.5, 6.5]
2 [1.1, 0.5]
3 [3.2]
4 [9.8, 7.6, 11.32]
Point 1.8 in cluster 0
Point 4.5 in cluster 1
Point 1.1 in cluster 2
```



```
4 [9.8, 7.6, 11.32]
iteration --2
0 [1.8, 2.1]
1 [4.5, 6.5]
2 [1.1, 0.5]
3 [3.2]
4 [9.8, 7.6, 11.32]
iteration --3
0 [1.8, 2.1]
1 [4.5, 6.5]
2 [1.1, 0.5]
3 [3.2]
4 [9.8, 7.6, 11.32]
Point 1.8 in cluster 0
Point 4.5 in cluster 1
Point 1.1 in cluster 2
Point 2.1 in cluster 0
Point 9.8 in cluster 4
Point 7.6 in cluster 4
Point 11.32 in cluster 4
Point 3.2 in cluster 3
Point 0.5 in cluster 2
Point 6.5 in cluster 1
Process finished with exit code 0
```