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COMP6200

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**Project 3**

**SOURCE CODE**

**Text

Description automatically generated** **Text

Description automatically generated**

**RESULTS**

2) Accuracy of test data: 82.03 %

3) Prediction for data1, predicted class: 0

Prediction for data2, predicted class: 1

4) Best # of clusters: 3

Chart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generated K = 3

Number of samples in cluster 2 is: 10463

Number of samples in cluster 1 is: 8371

Number of samples in cluster 3 is: 4530

K = 1

Number of samples in cluster 1 is: 23364

K = 2

Number of samples in cluster 2 is: 14878

Number of samples in cluster 1 is: 8486

Chart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generated K = 4

Number of samples in cluster 3 is: 7457

Number of samples in cluster 1 is: 7421

Number of samples in cluster 2 is: 5789

Number of samples in cluster 4 is: 2697

K = 5

Number of samples in cluster 1 is: 7083

Number of samples in cluster 3 is: 6129

Number of samples in cluster 5 is: 5102

Number of samples in cluster 2 is: 3358

Number of samples in cluster 4 is: 1692

K = 6

Number of samples in cluster 2 is: 5457

Number of samples in cluster 6 is: 5165

Number of samples in cluster 4 is: 5006

Number of samples in cluster 1 is: 4245

Number of samples in cluster 5 is: 2719

Number of samples in cluster 3 is: 772

K = 7

Number of samples in cluster 7 is: 4700

Number of samples in cluster 2 is: 4670

Number of samples in cluster 5 is: 4493

Number of samples in cluster 4 is: 3842

Number of samples in cluster 3 is: 2962

Number of samples in cluster 6 is: 2077

Number of samples in cluster 1 is: 620

**Elbow Plot**

Chart, line chart

Description automatically generated