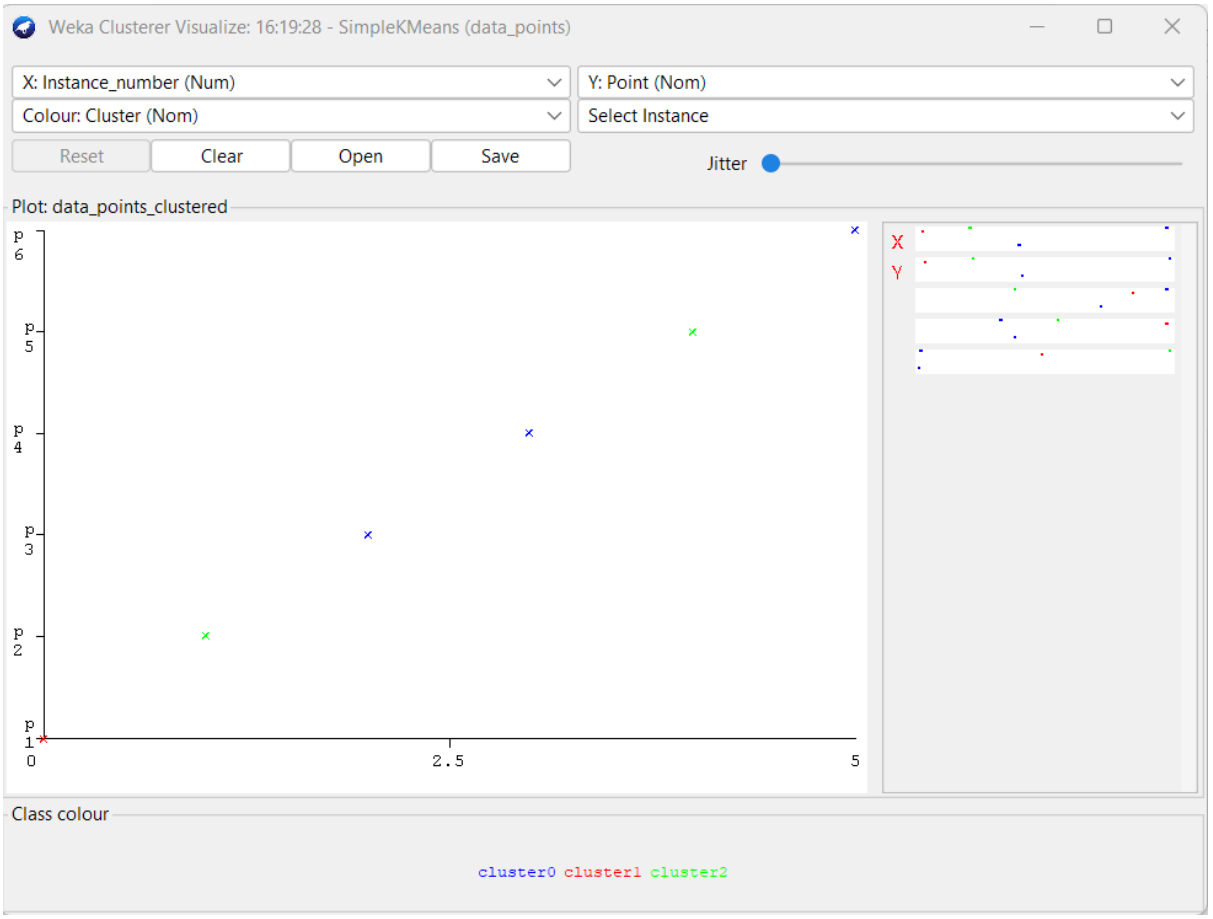
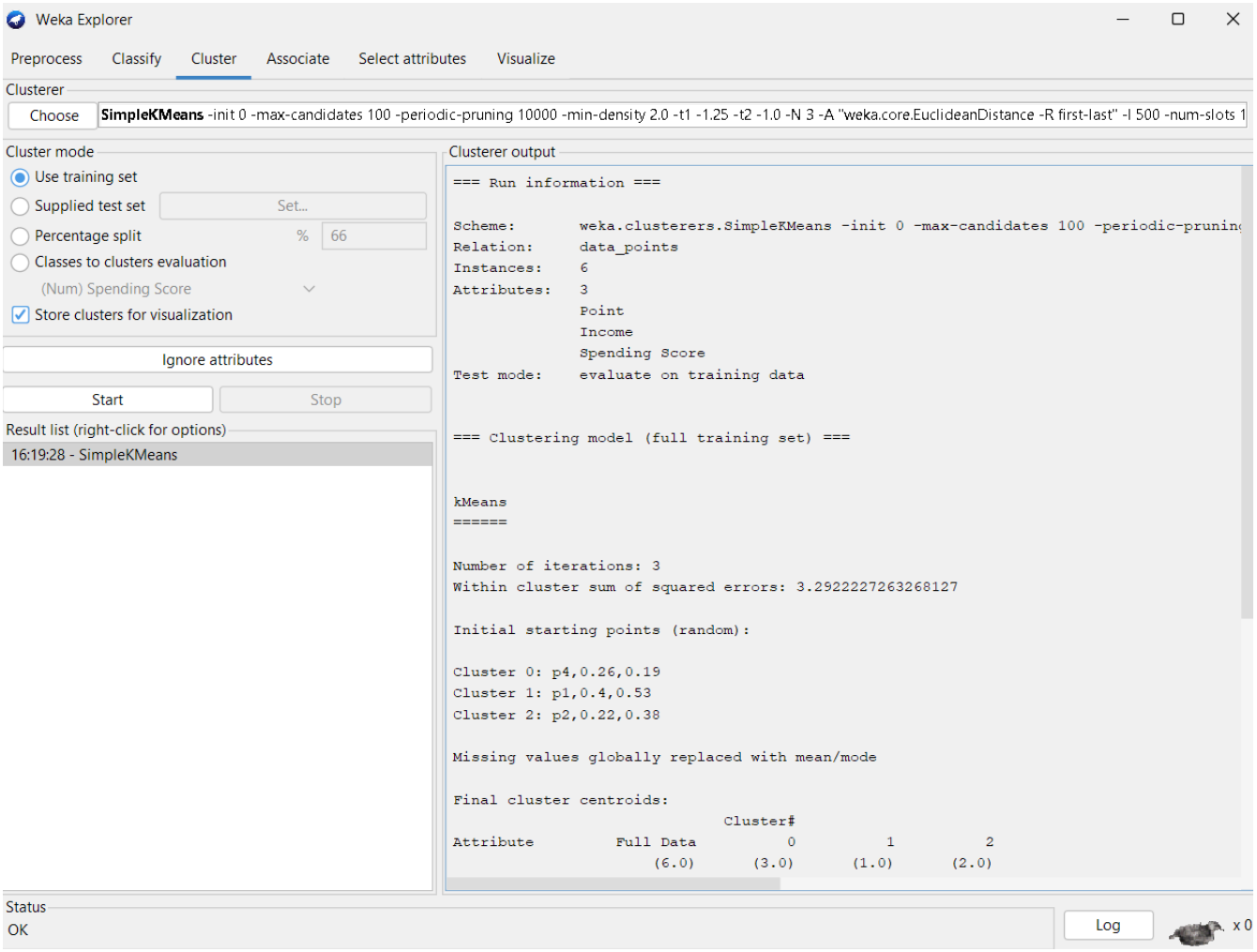
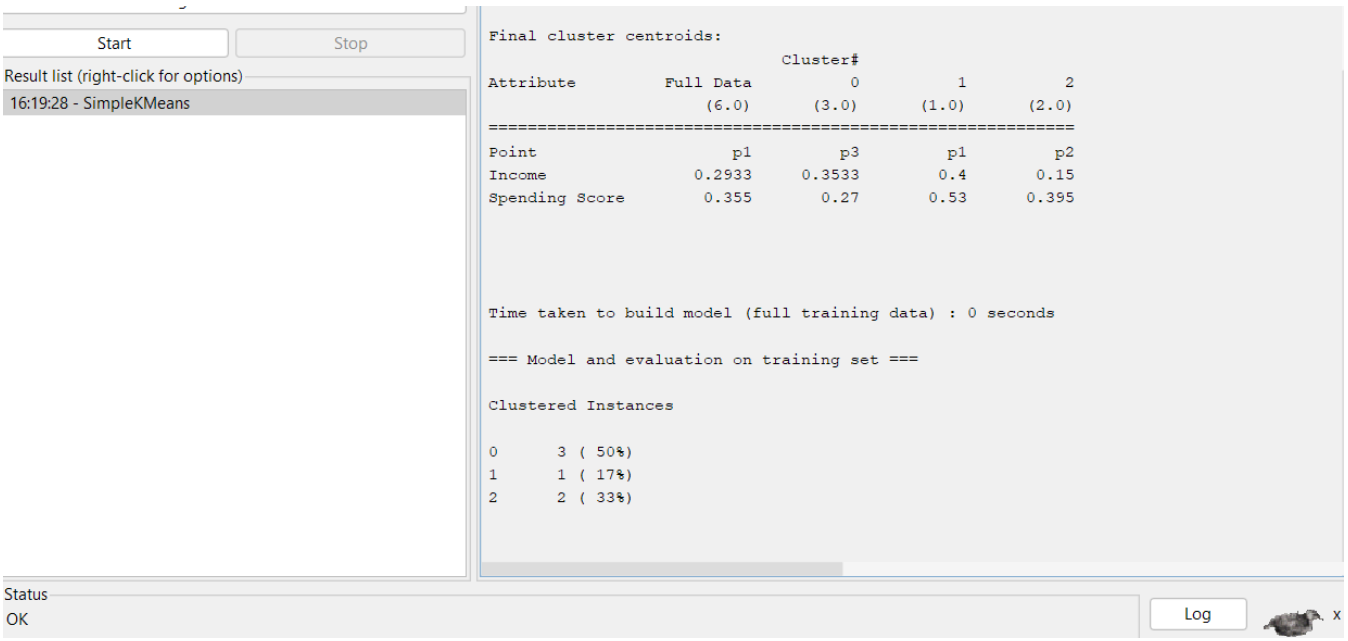
exp7 (k means clustering)

Sakshi Kupekar
9910

4) k-means Weka




Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Clusterer
Choose
SimpleKMeans -init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 3 -A "weka.core.EuclideanDistance -R first-last" -I 500 -num-slots 1
Cluster mode
Use training set
Supplied test set
Set...
Percentage split
%
66
Classes to clusters evaluation
(Num) Spending Score
Store clusters for visualization
Ignore attributes
Start
Stop
Result list (right-click for options)
16:19:28 - SimpleKMeans
Clusterer output
=== Run information ===
Scheme: weka.clusterers.SimpleKMeans -init 0 -max-candidates 100 -periodic-pruning
Relation: data_points
Instances: 6
Attributes: 3
Point
Income
Spending Score
Test mode: evaluate on training data
=== Clustering model (full training set) ===
kMeans
======
Number of iterations: 3
Within cluster sum of squared errors: 3.2922227263268127
Initial starting points (random):
Cluster 0: p4,0.26,0.19
Cluster 1: p1,0.4,0.53
Cluster 2: p2,0.22,0.38
Missing values globally replaced with mean/mode
Final cluster centroids:
Cluster#
Attribute Full Data 0 1 2
(6.0) (3.0) (1.0) (2.0)
Status
OK
Log
x 0


Start
Stop
Result list (right-click for options)
16:19:28 - SimpleKMeans
Final cluster centroids:
Cluster#
Attribute Full Data 0 1 2
(6.0) (3.0) (1.0) (2.0)
Point p1 p3 p1 p2
Income 0.2933 0.3533 0.4 0.15
Spending Score 0.355 0.27 0.53 0.395
Time taken to build model (full training data) : 0 seconds
=== Model and evaluation on training set ===
Clustered Instances
0 3 (50%)
1 1 (17%)
2 2 (33%)
Status
OK
Log
x