Practical – 11

Demonstrate following pre-processing operations in given sequence using Knowledge flow: -

a) Load weather numeric dataset.
b) Add Attribute name "rain" at index 1.
c) Discretize the attribute i.e., temperature & humidity.
d) Apply association rule applying "apriori" algorithm.
e) Use text viewer component to display the dataset.
f) Save the dataset as ".arff" files.

Solution:

a) (i) Open "Knowledge Flow" tab from WEKA main window.
   (ii) Add "ArffLoader" in the Knowledge Flow environment.

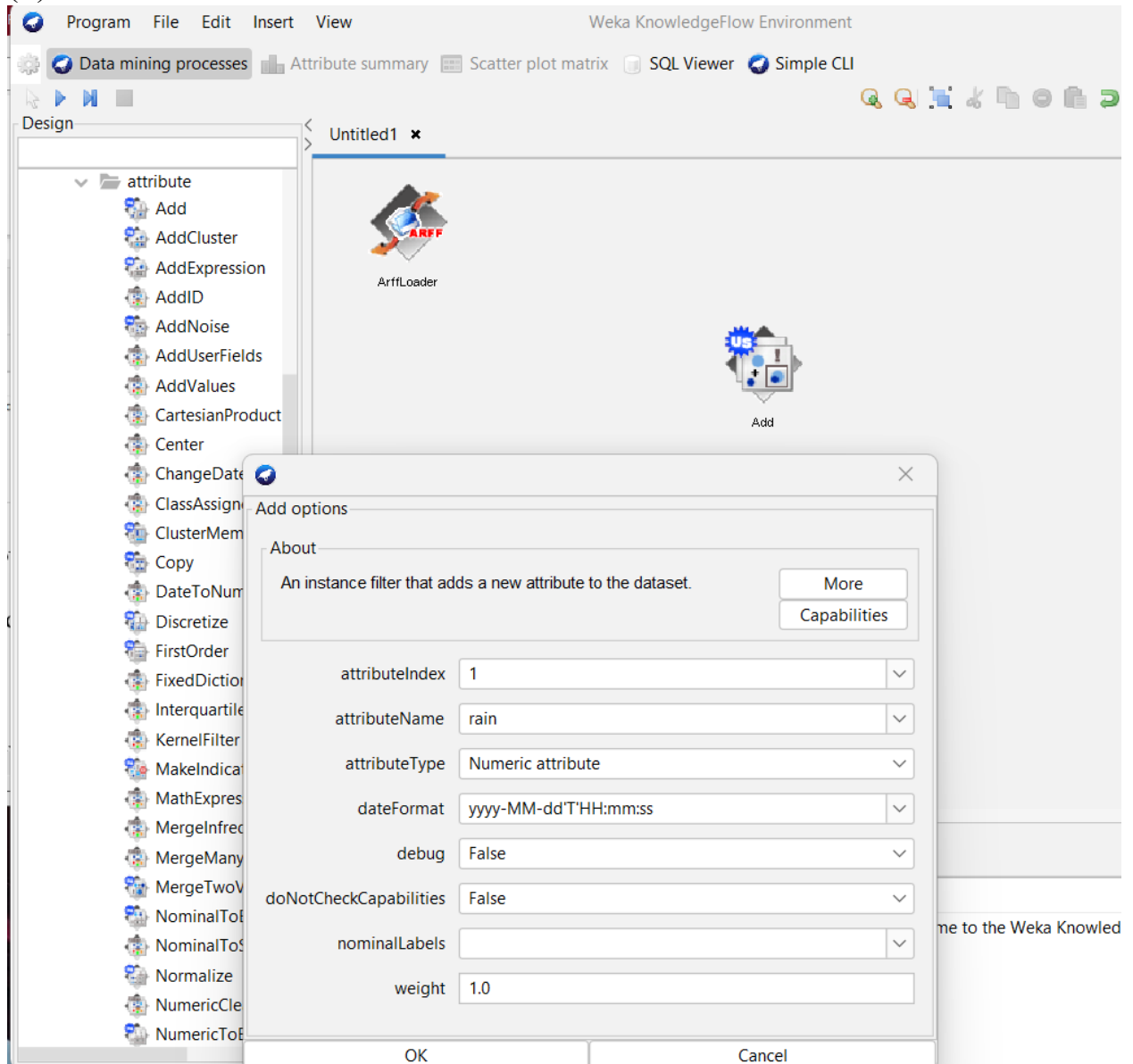(iii) Select the "weather.numeric.arff" data and Click "OK" button.

b) (i) Insert "Add" component from "Unsupervised" filters.
   (ii) Set the index and the name of the index and the name of the attribute.

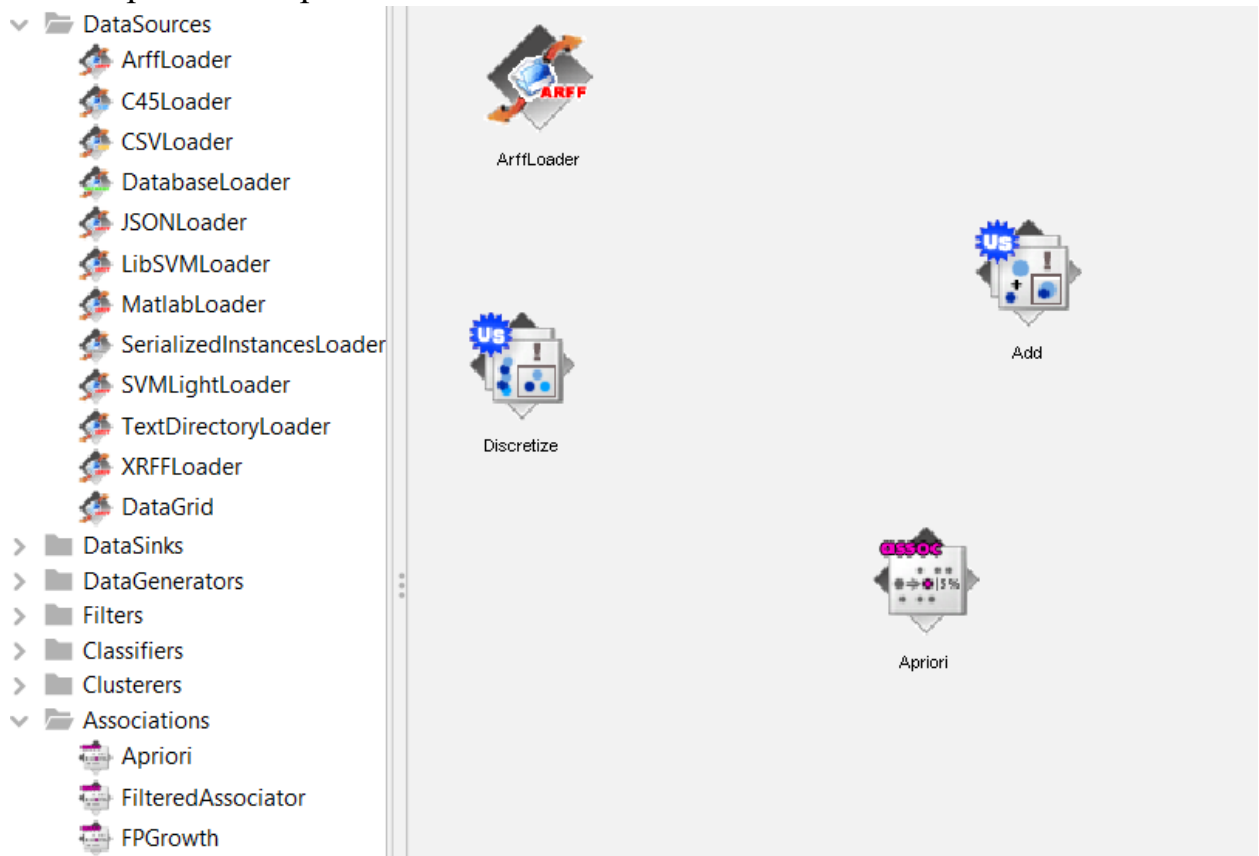c) (i) Add "Discretize" filter from "Unsupervised" filters.
   (ii) Type "2,3" values in attribute indices to discretize temperature and

humidity attributes.
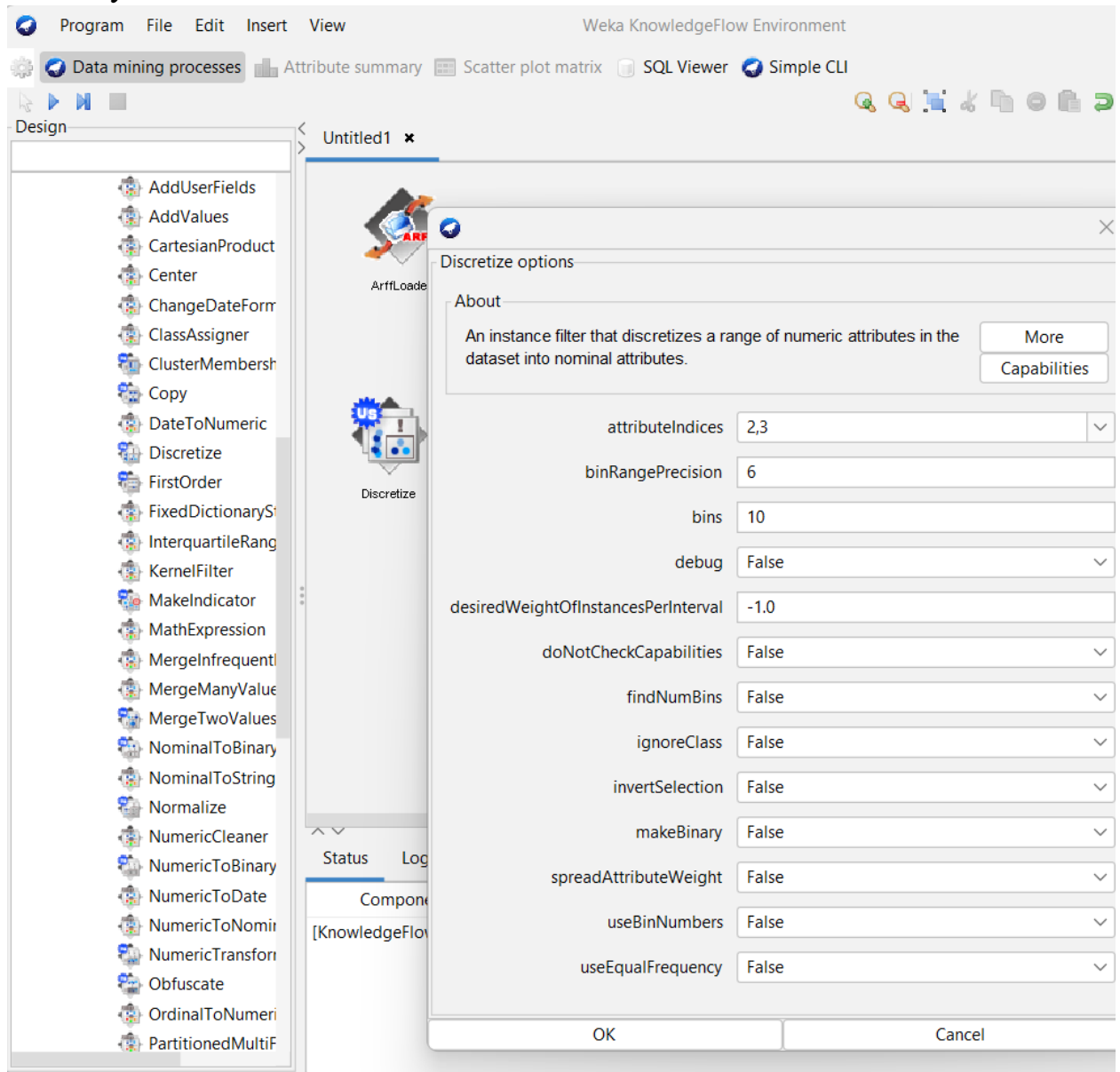
d) Add "Apriori" component from "Associations".

e) (i) Add "TextViewer" from "Visualization".
(ii) Run the "Knowledge Flow" and see the results in "TextViewer" by clicking on "Show Results" option.

f) (i) Load the "ArffLoader" and specify the directory where we want to save and run the "Knowledge Flow".
(ii) The ".arff" file will be saved.