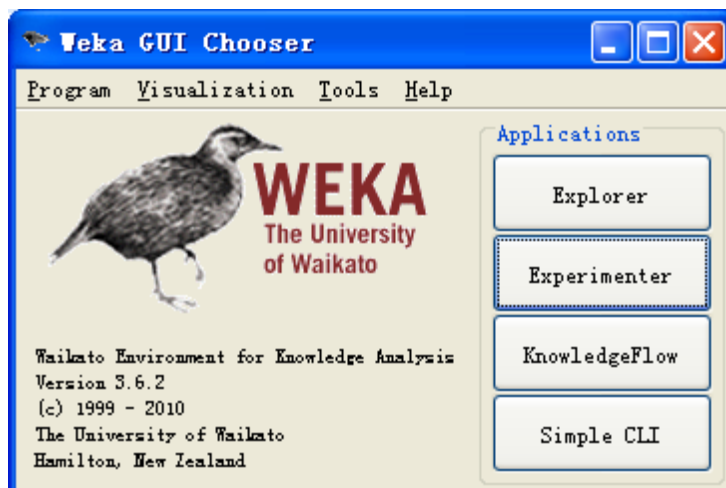
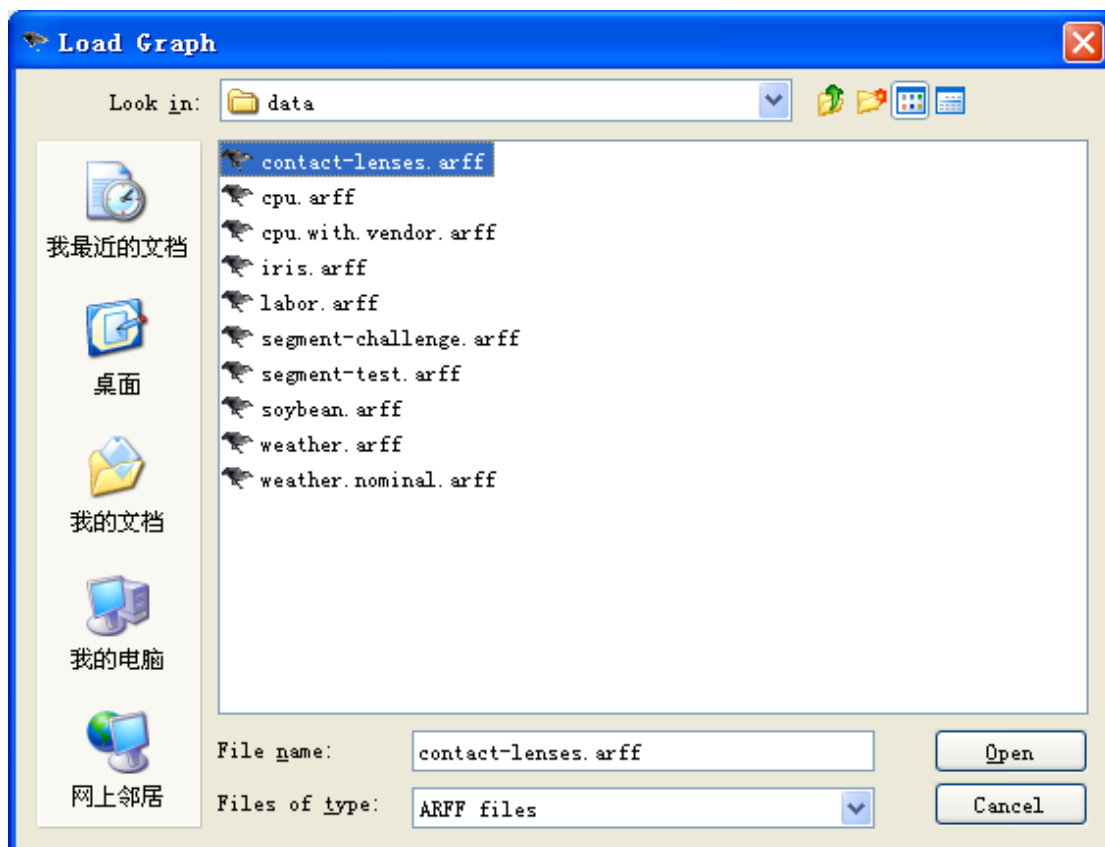
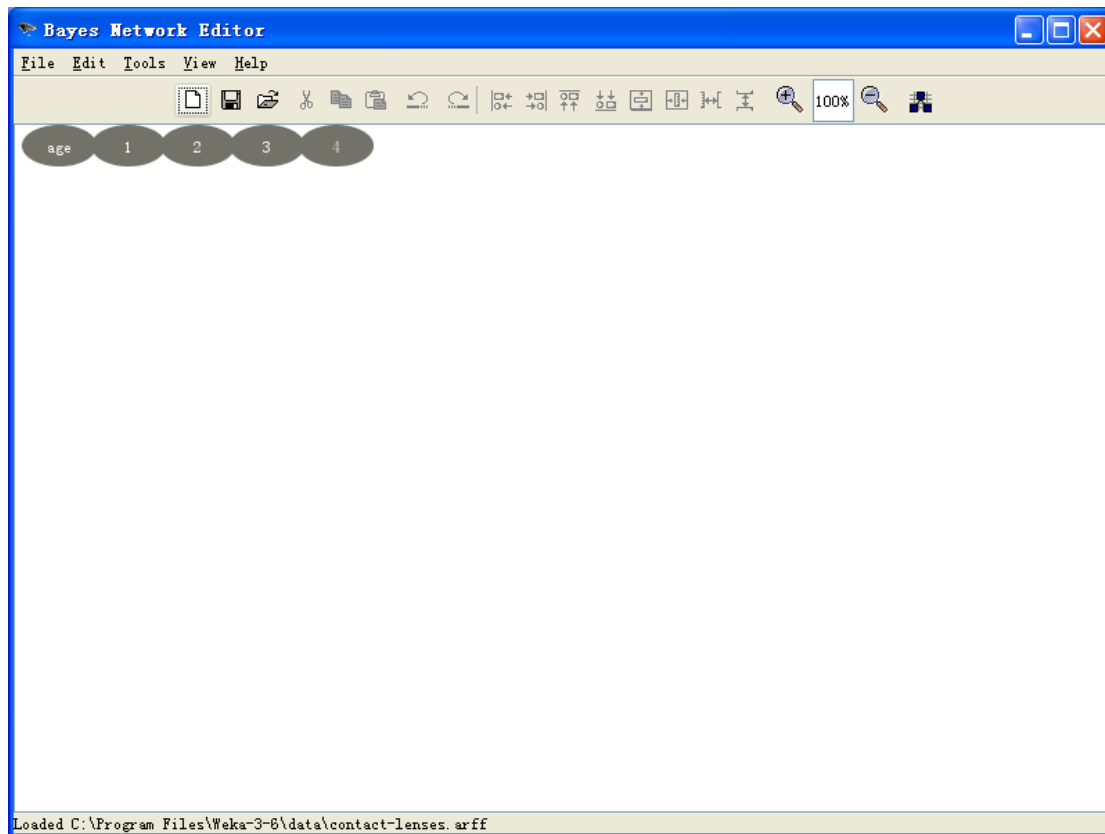


1. Start Weka, open Bayes Network Editor (Under tools menu)

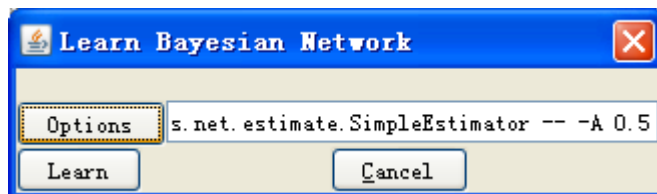


2. File -> load contact-lenses.arff (under weka's data folder)

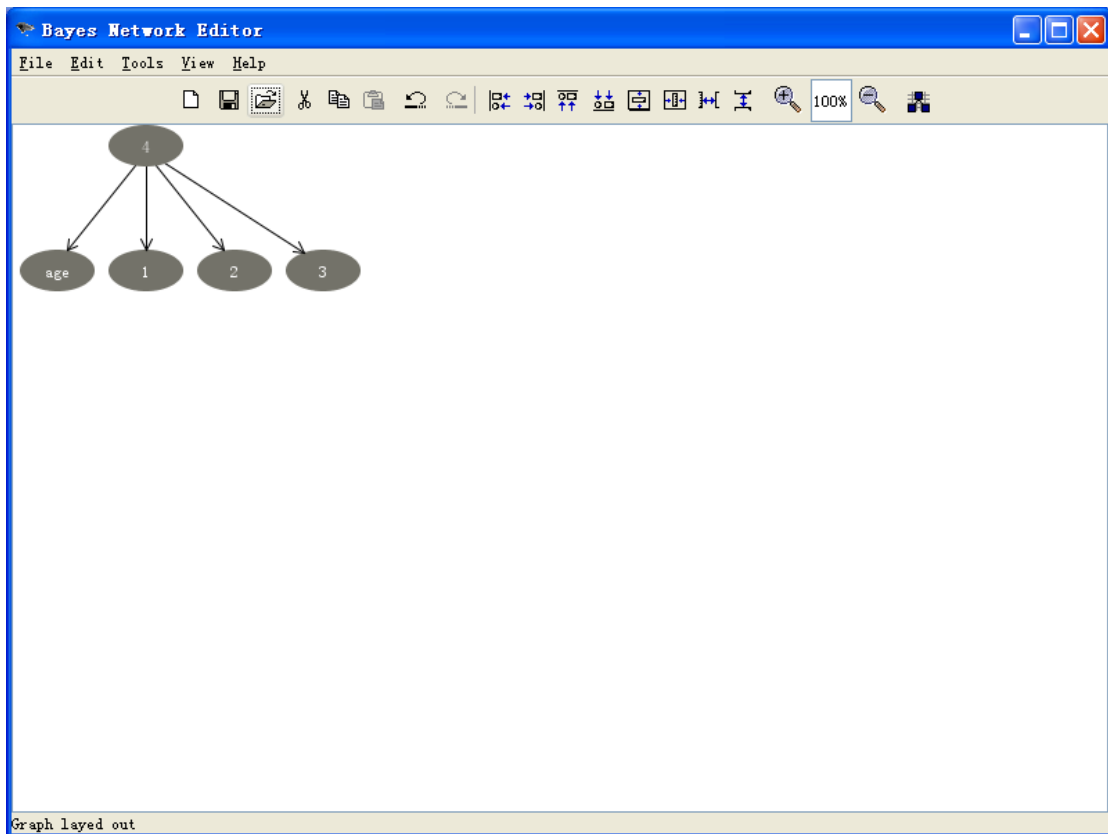




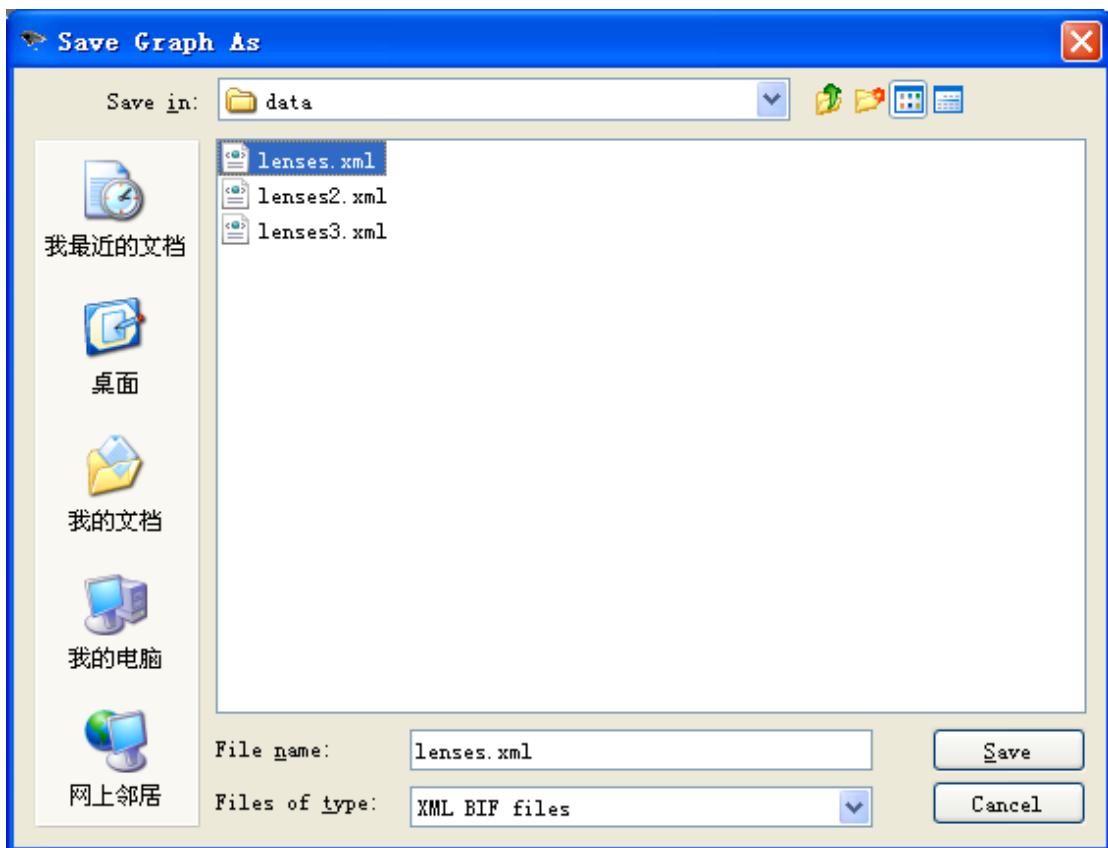
3. Learn Bayes Net design by Tools -> Learn Network



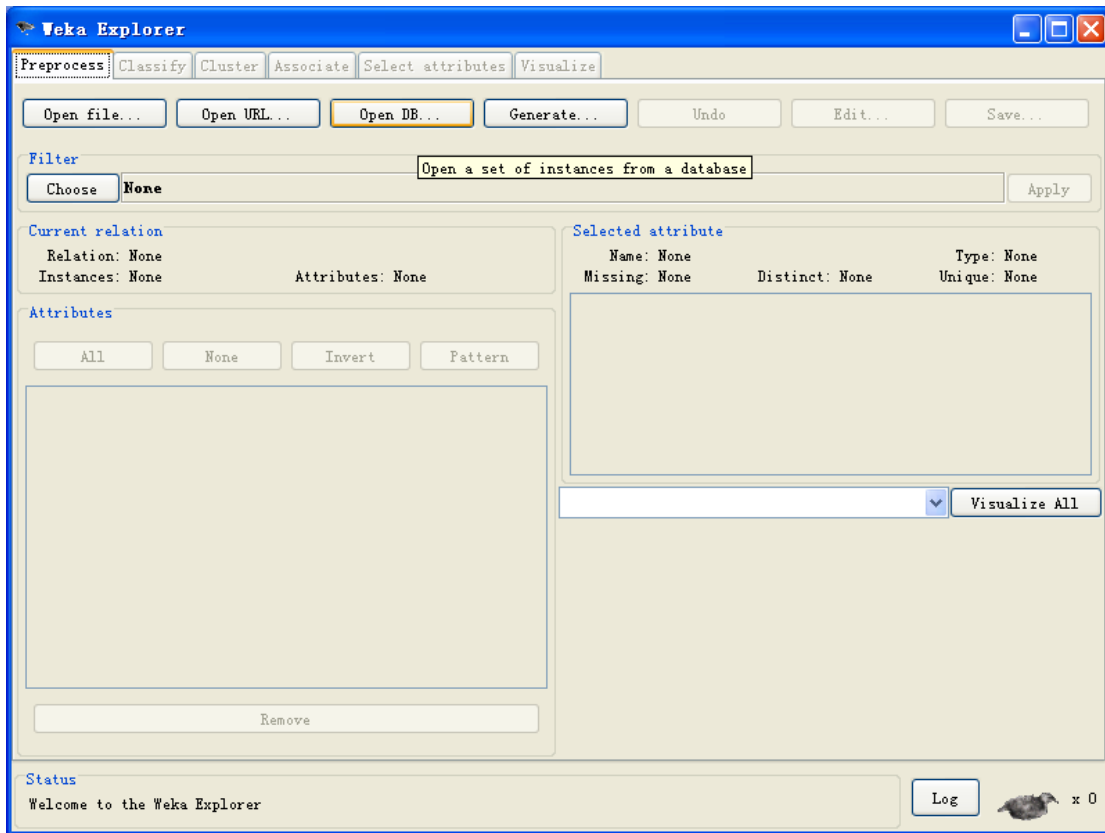
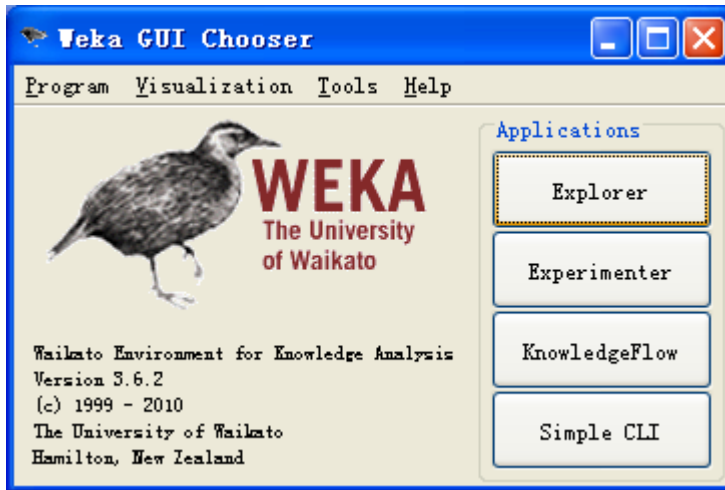
4. Press "Learn"



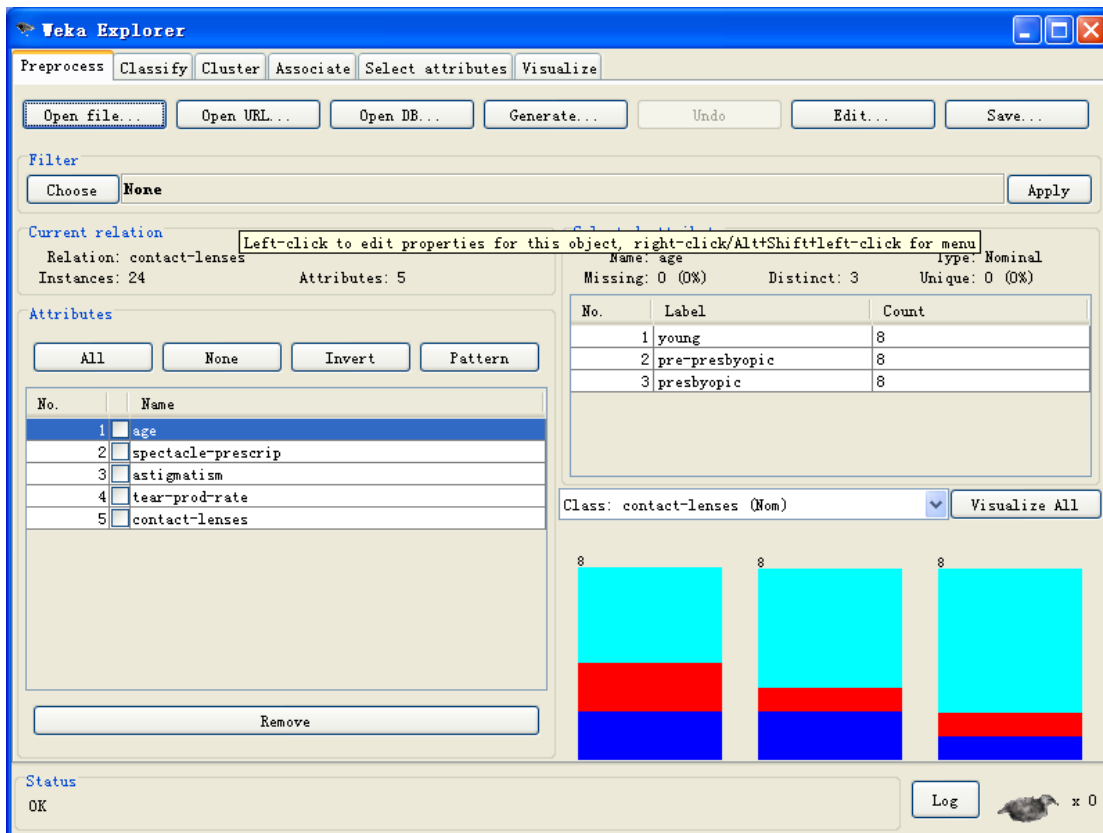
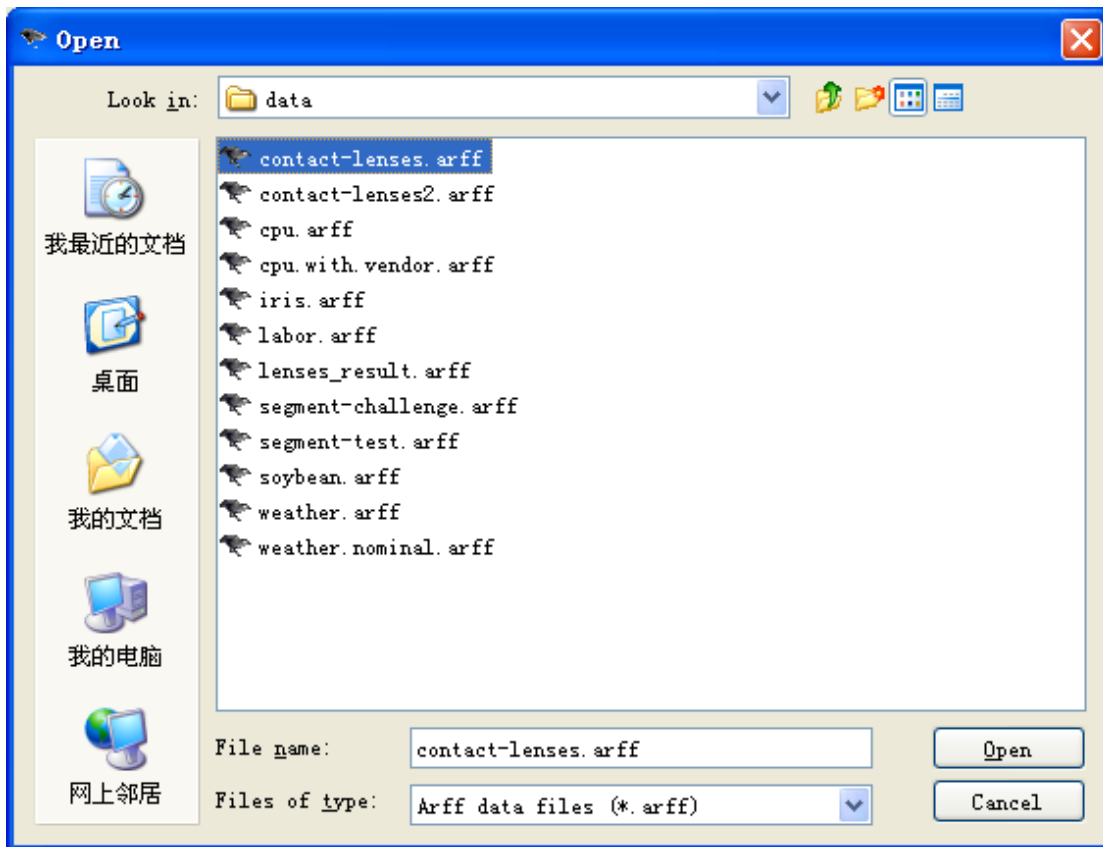
5. Save the graph as lenses.xml



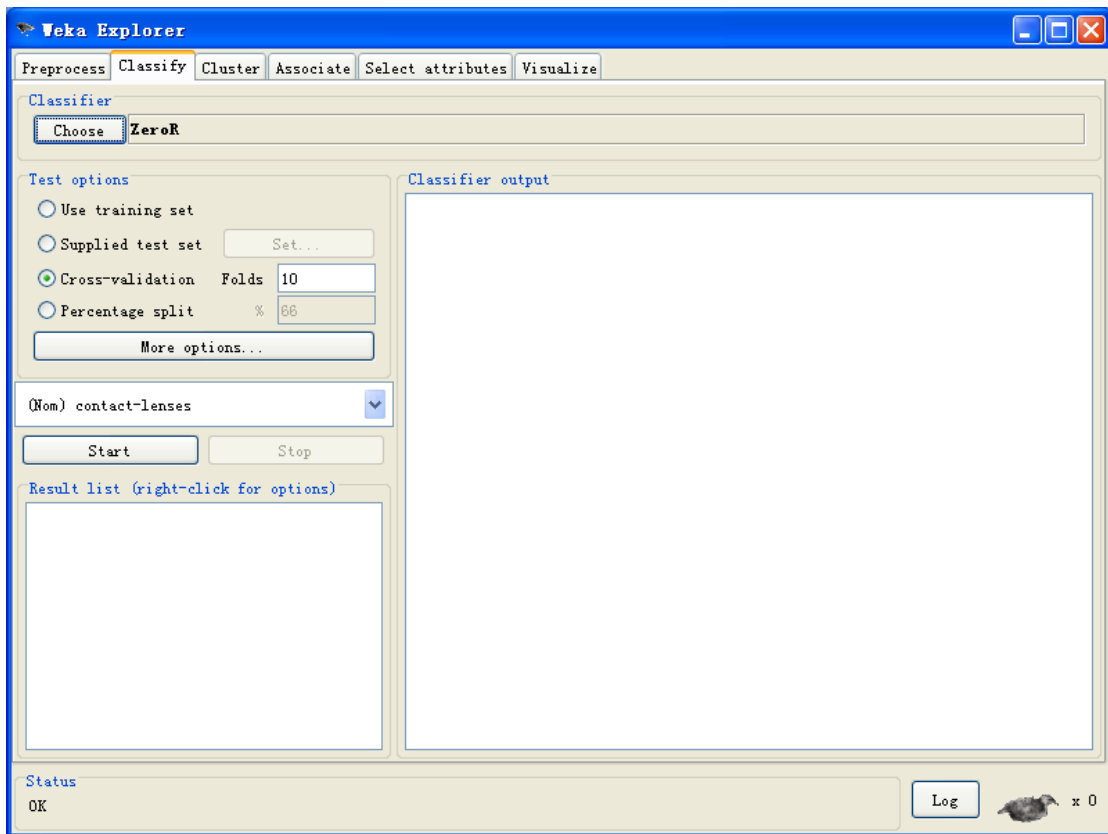
6. Open Explorer (don't close Bayes net editor)



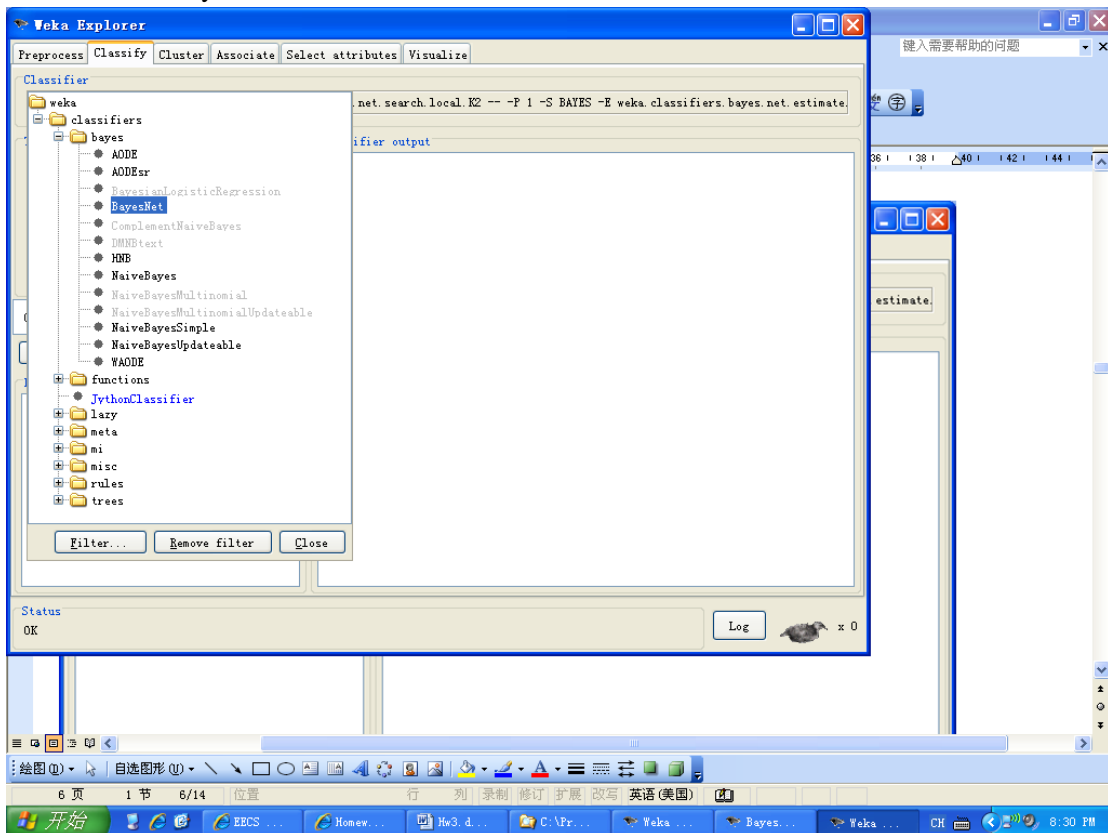
7. Open file... -> contact-lenses.arff

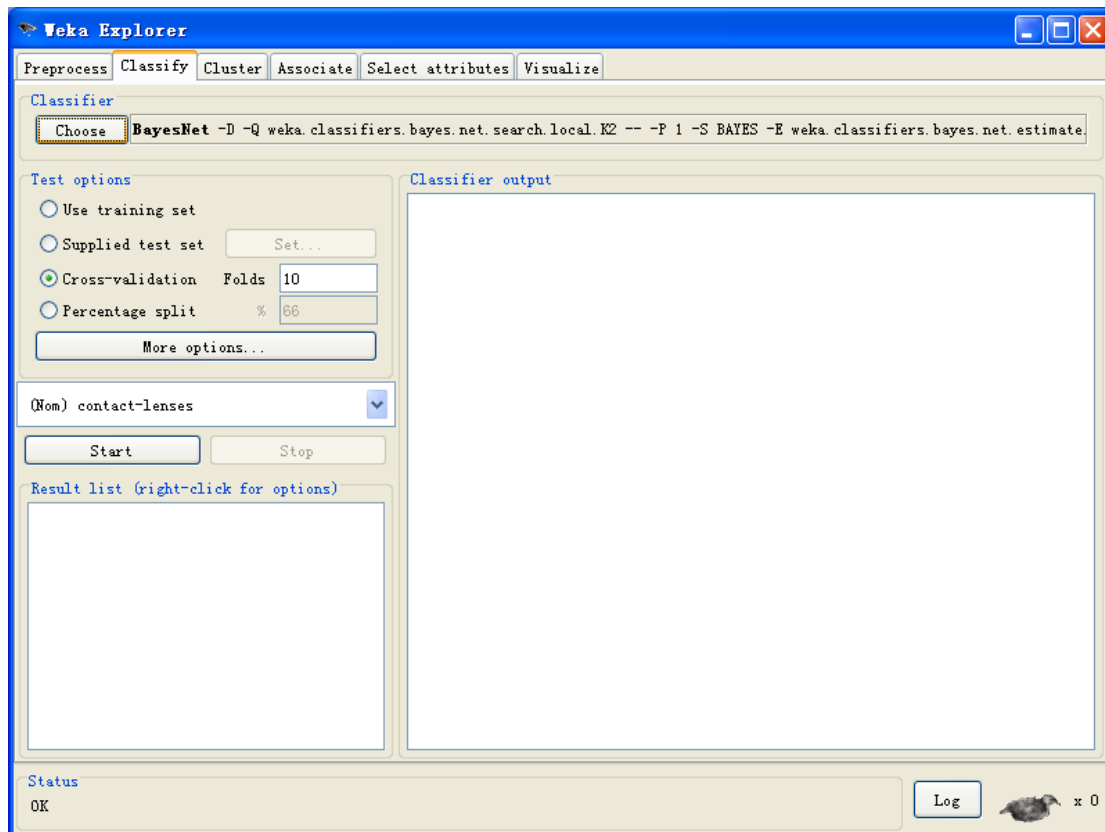


8. Classify Tab

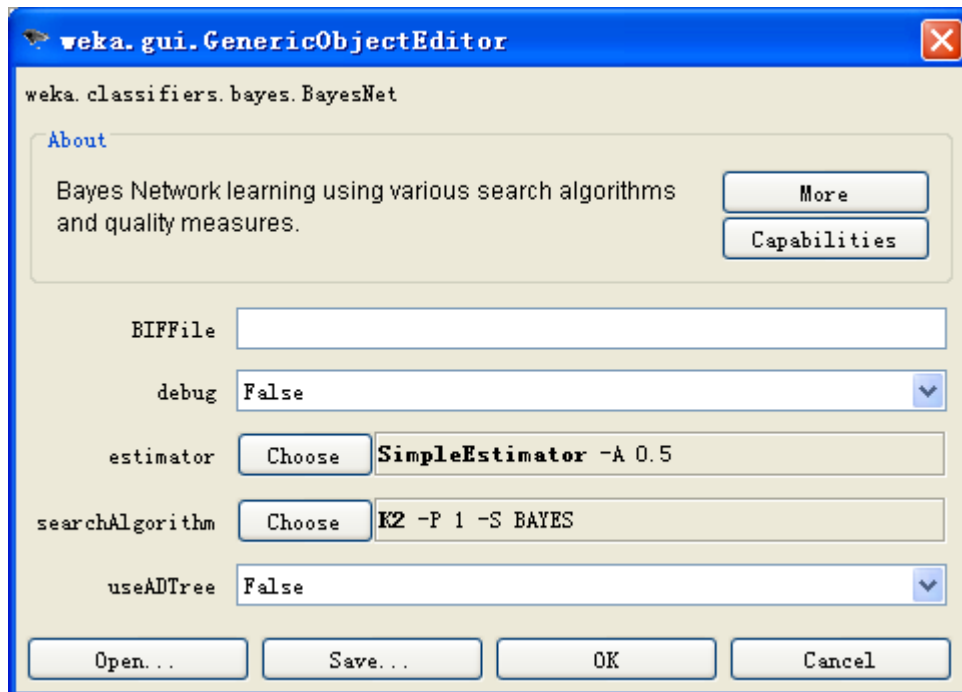


9. Choose -> Bayes net

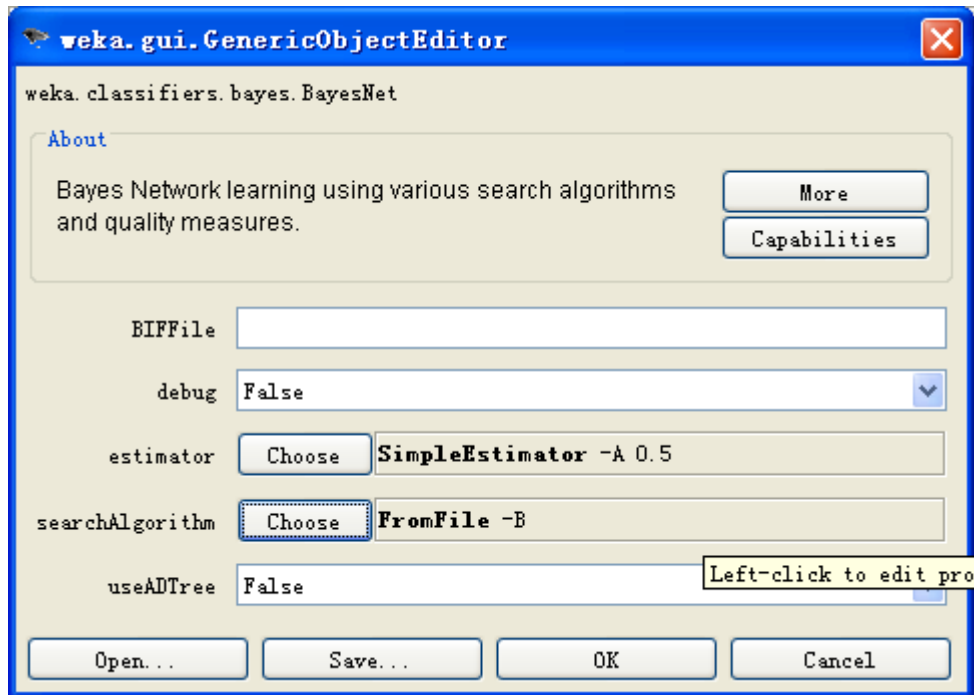
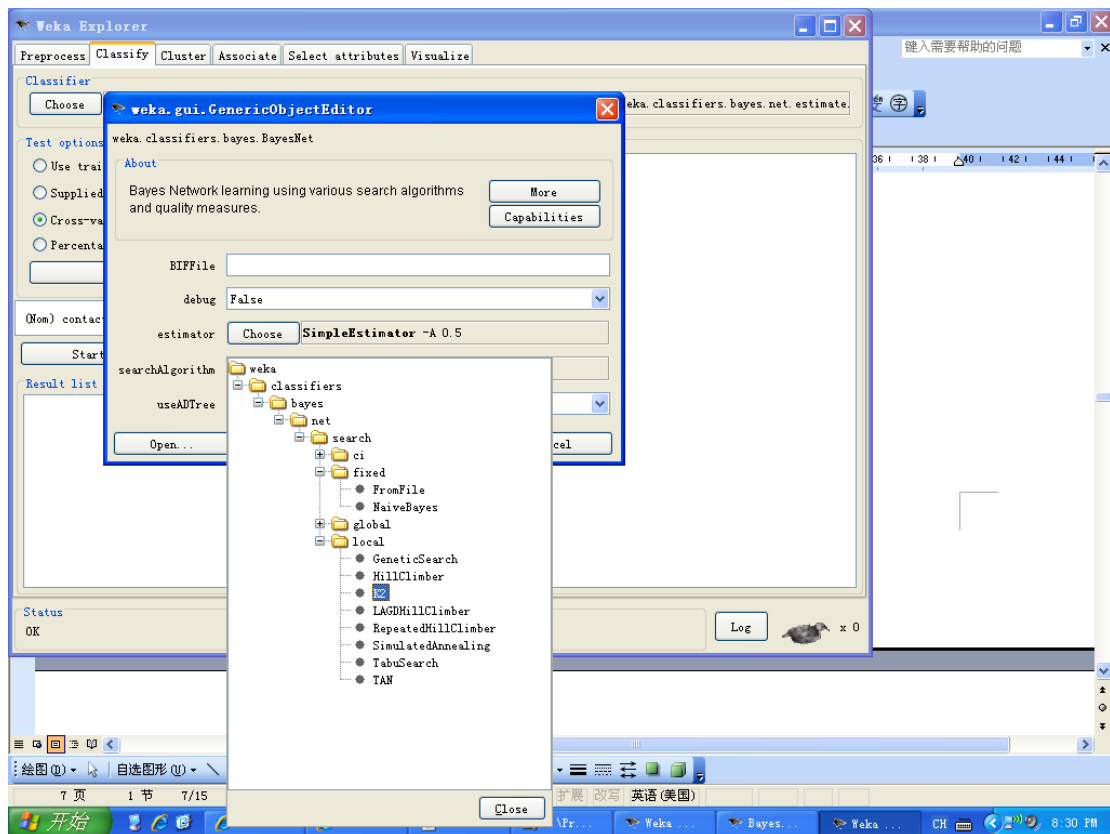




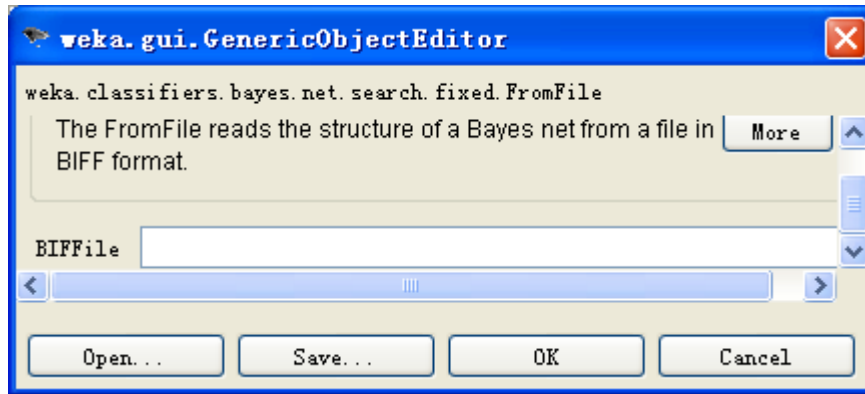
10. Click the bold “Bayes net” (yes, the text!)



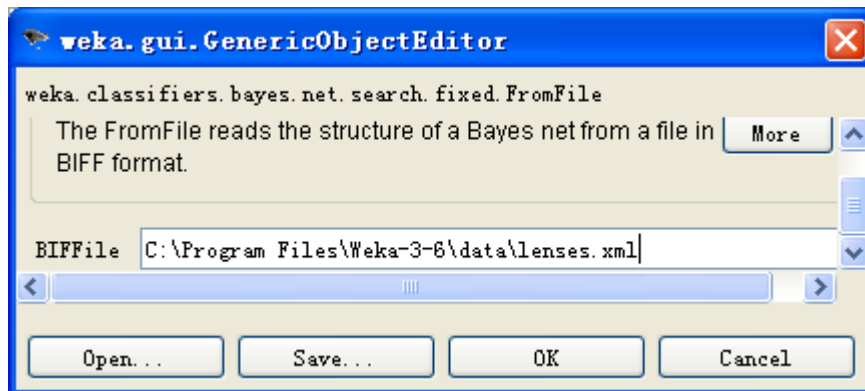
11. Search algorithm -> choose -> from file (under “fixed”)



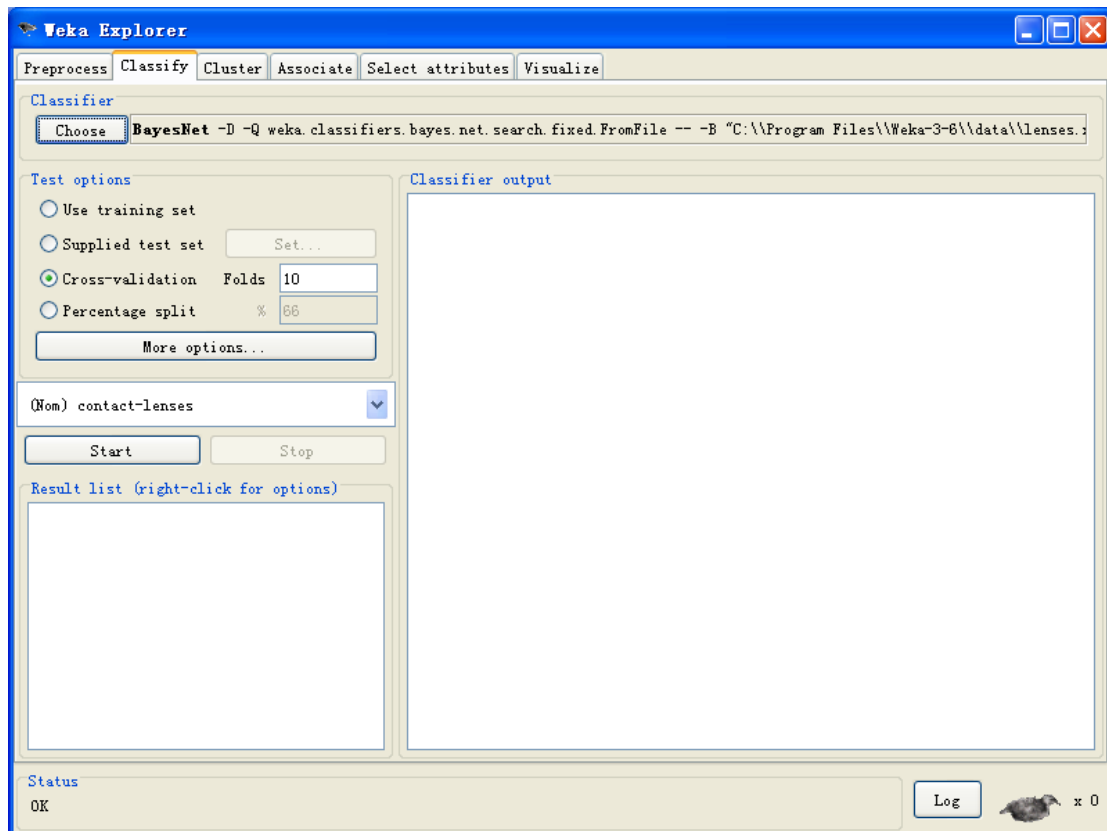
12. Click the bold text "FromFile"



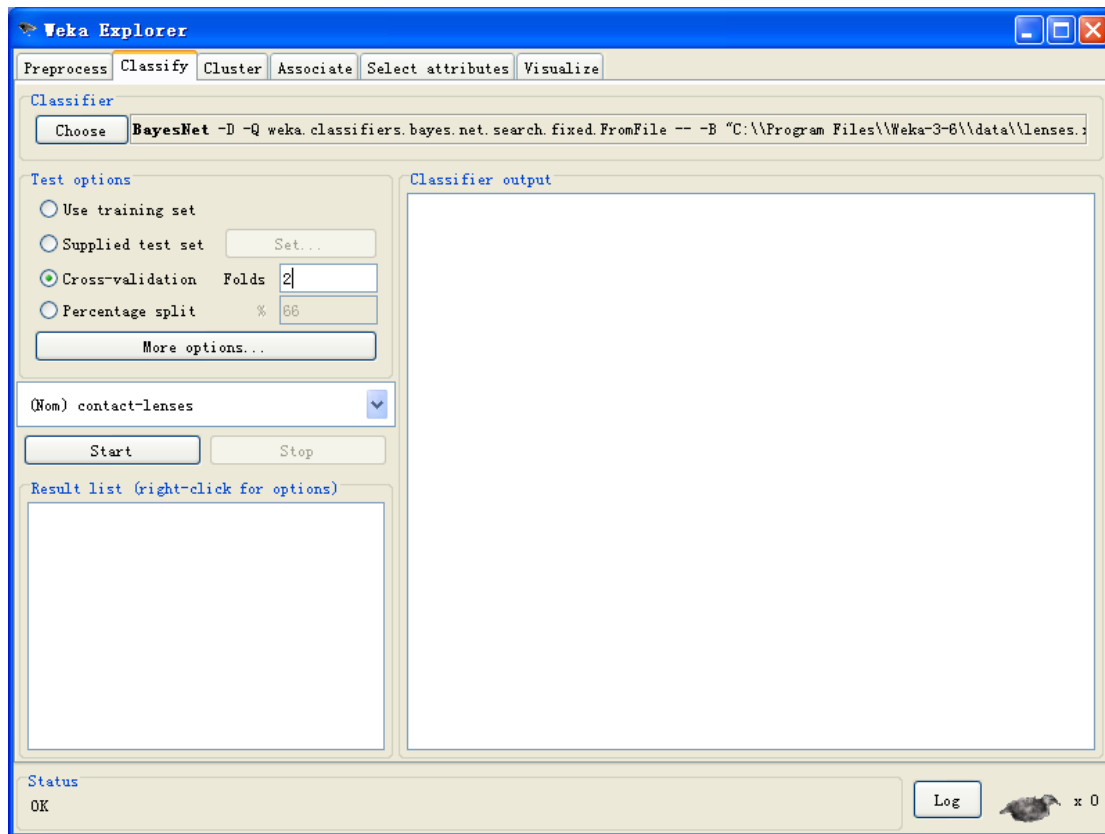
13. type the path in the “BIFFFILE” box



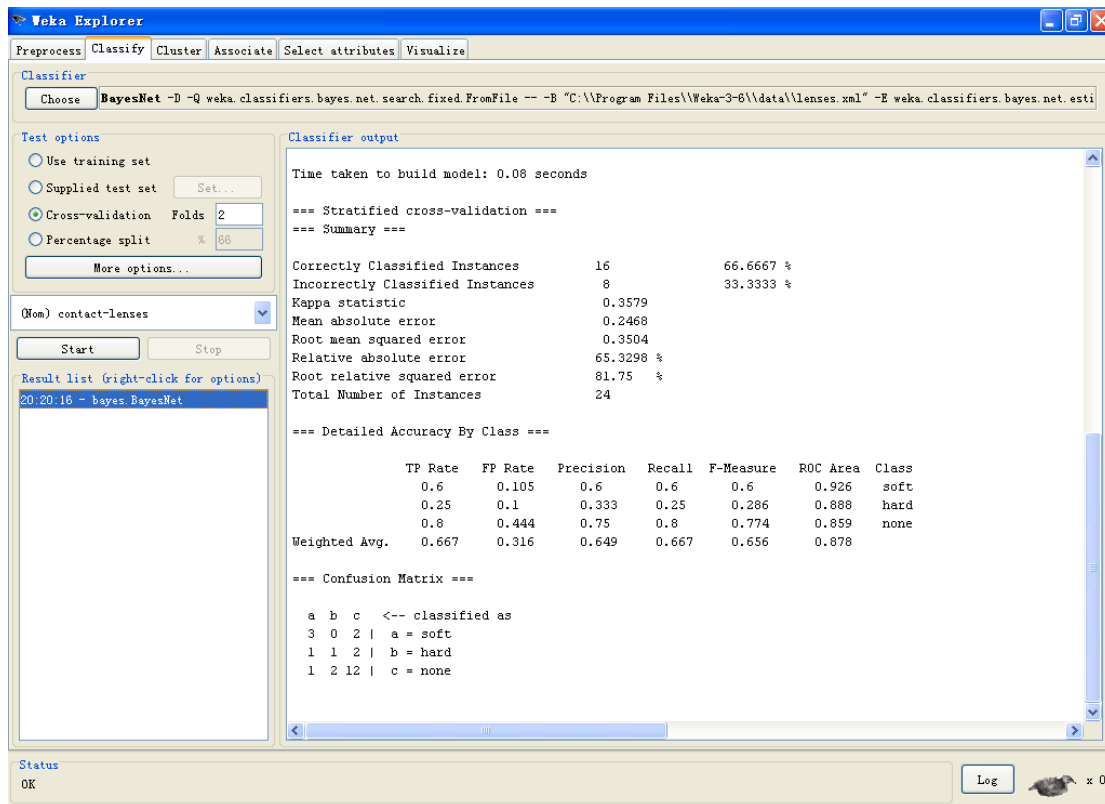
14. Press OK, OK



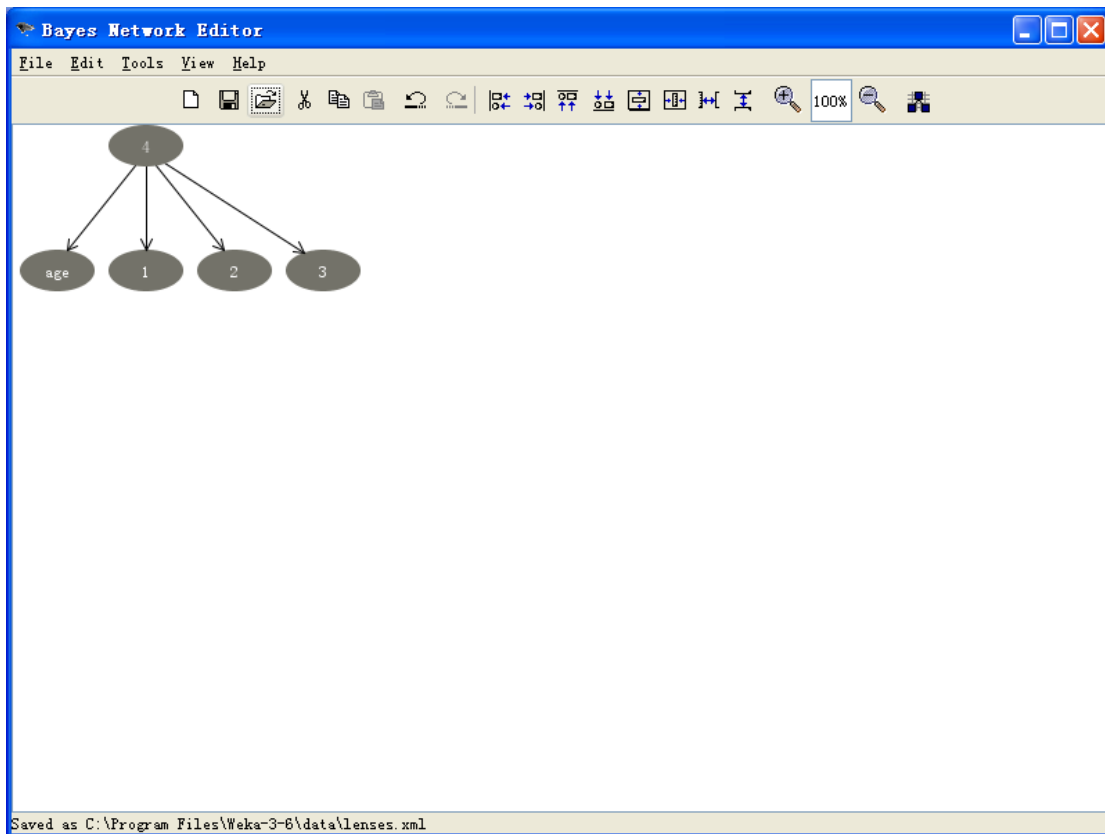
15. Change the folds of cross-validation to 2



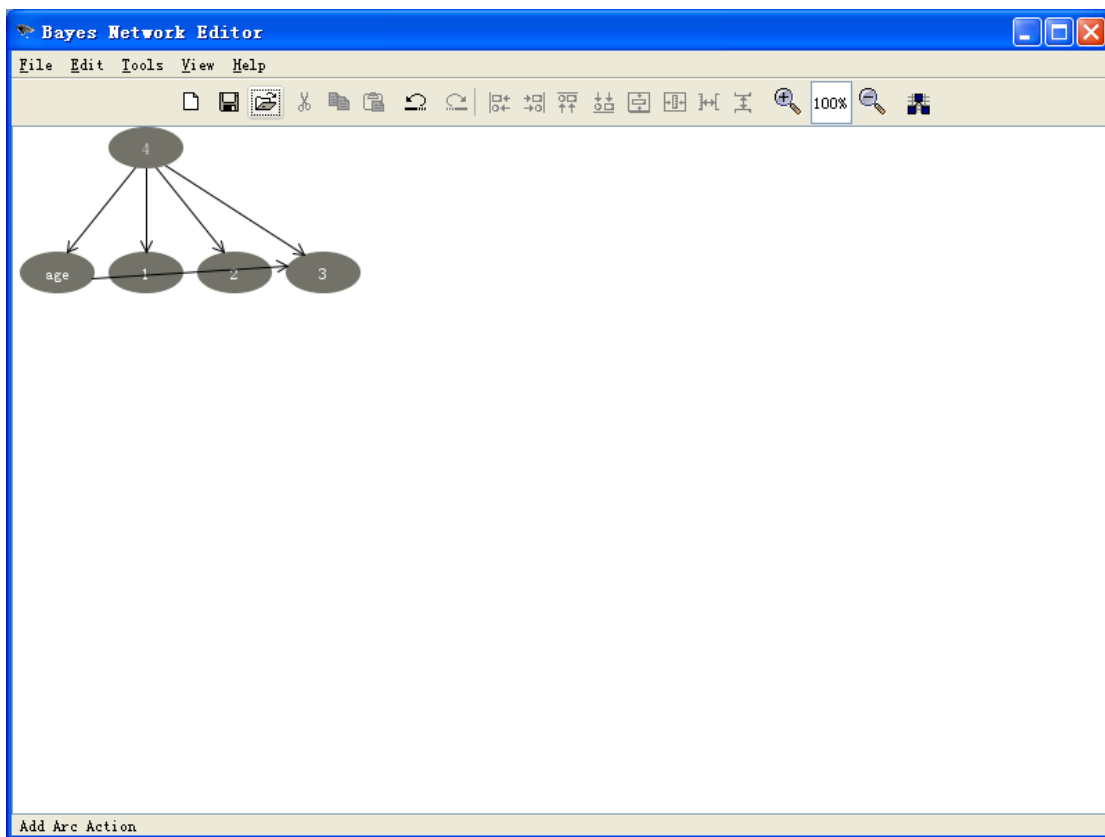
16. Press start



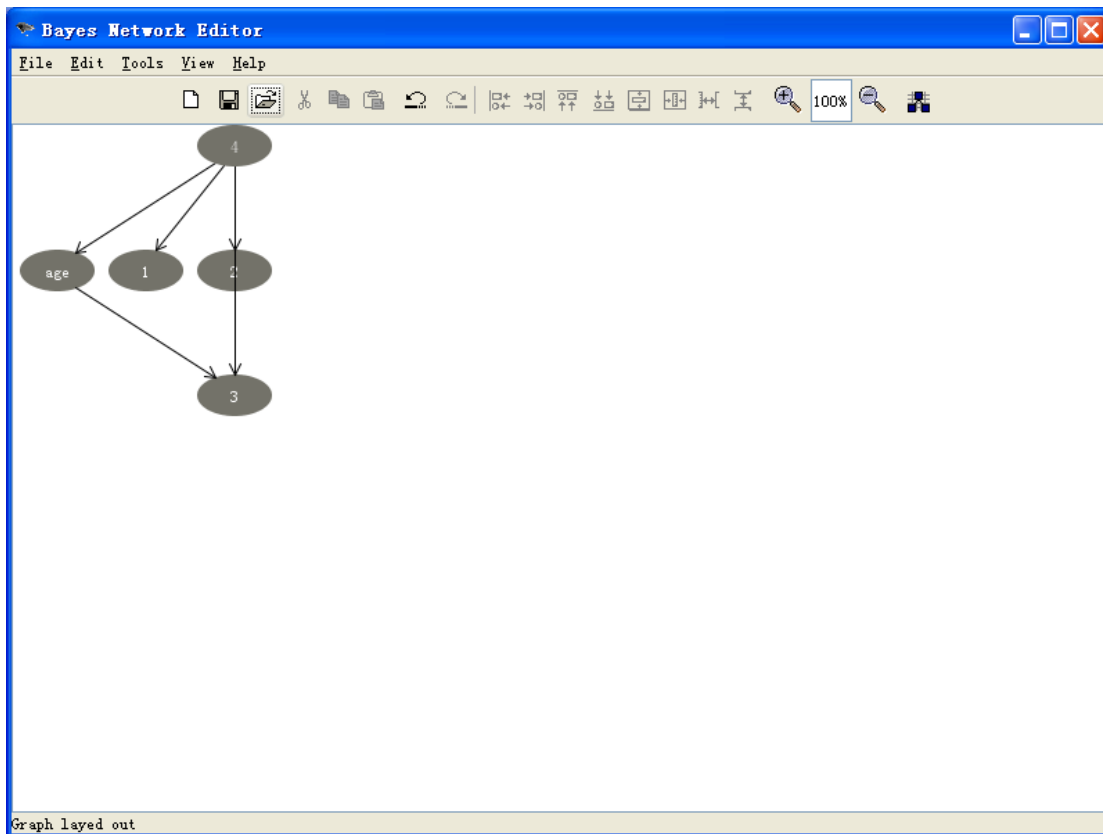
17. Switch to the previous Bayes net editor



18. Right click “3”->Add parent->age



19. Tools->Layout->Layout graph



20. Save as lenses2.xml

21. Switch to Weka explorer

The Weka Explorer window shows the results of a classification task using a BayesNet classifier. The "Classifier" tab is active, and the classifier is identified as "BayesNet". The "Test options" section shows "Cross-validation" selected with 2 folds. The "Classifier output" pane displays the following results:

Time taken to build model: 0.08 seconds

=== Stratified cross-validation ===
 === Summary ===

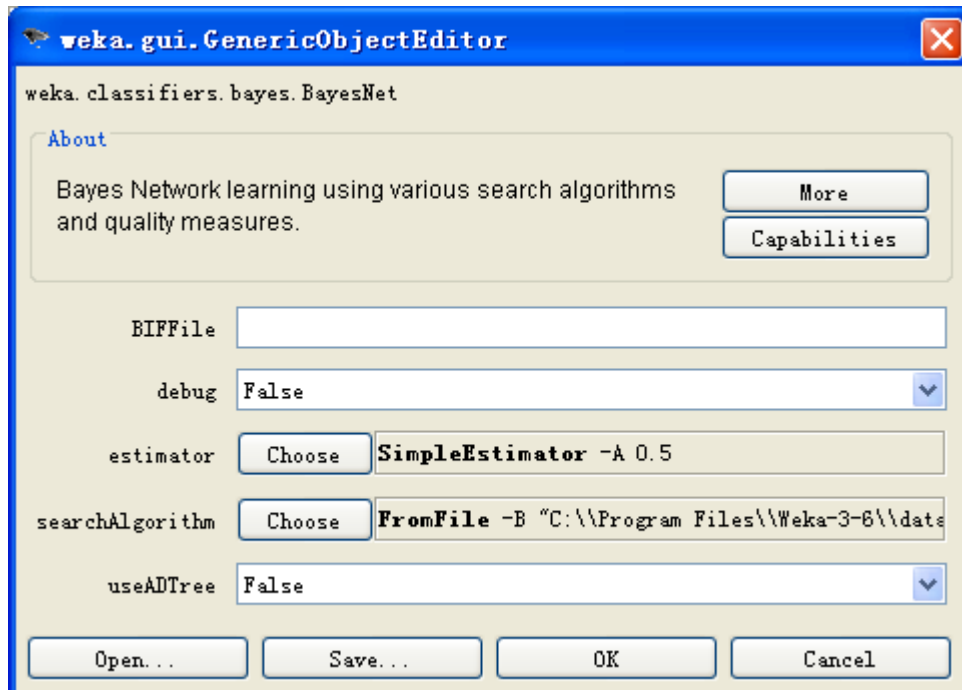
Correctly Classified Instances	16	66.6667 %
Incorrectly Classified Instances	8	33.3333 %
Kappa statistic	0.3579	
Mean absolute error	0.2468	
Root mean squared error	0.3504	
Relative absolute error	65.3298 %	
Root relative squared error	81.75 %	
Total Number of Instances	24	

=== Detailed Accuracy By Class ===

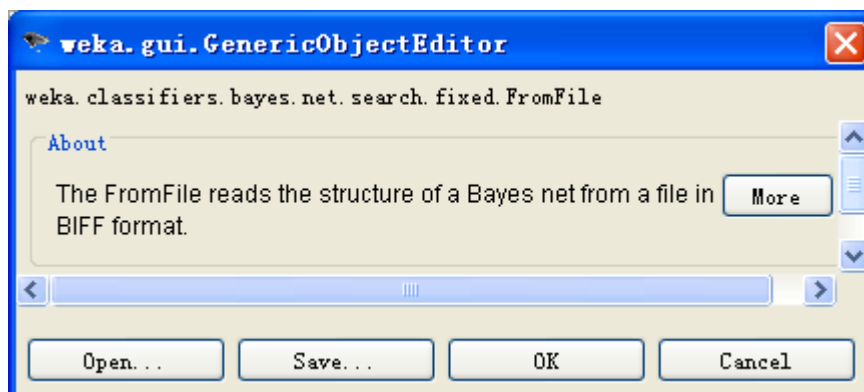
	TP Rate	FP Rate	Precision	Recall	F-Measure	ROC AUC
0	0.6	0.105	0.6	0.6	0.6	0.6
1	0.25	0.1	0.333	0.25	0.286	0.6
2	0.8	0.444	0.75	0.8	0.774	0.6
Weighted Avg.	0.667	0.316	0.649	0.667	0.656	0.6

The "Result list" shows a single entry: "20:20:16 - bayes.BayesNet". The "Status" bar at the bottom shows "OK" and a "Log" button.

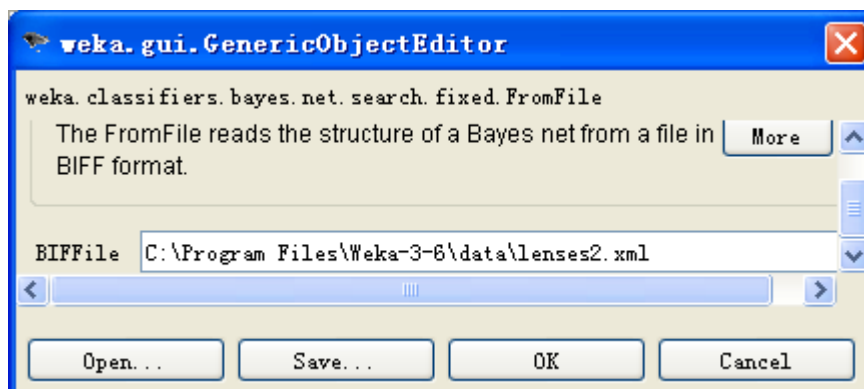
22. Click bold text “BayesNet”



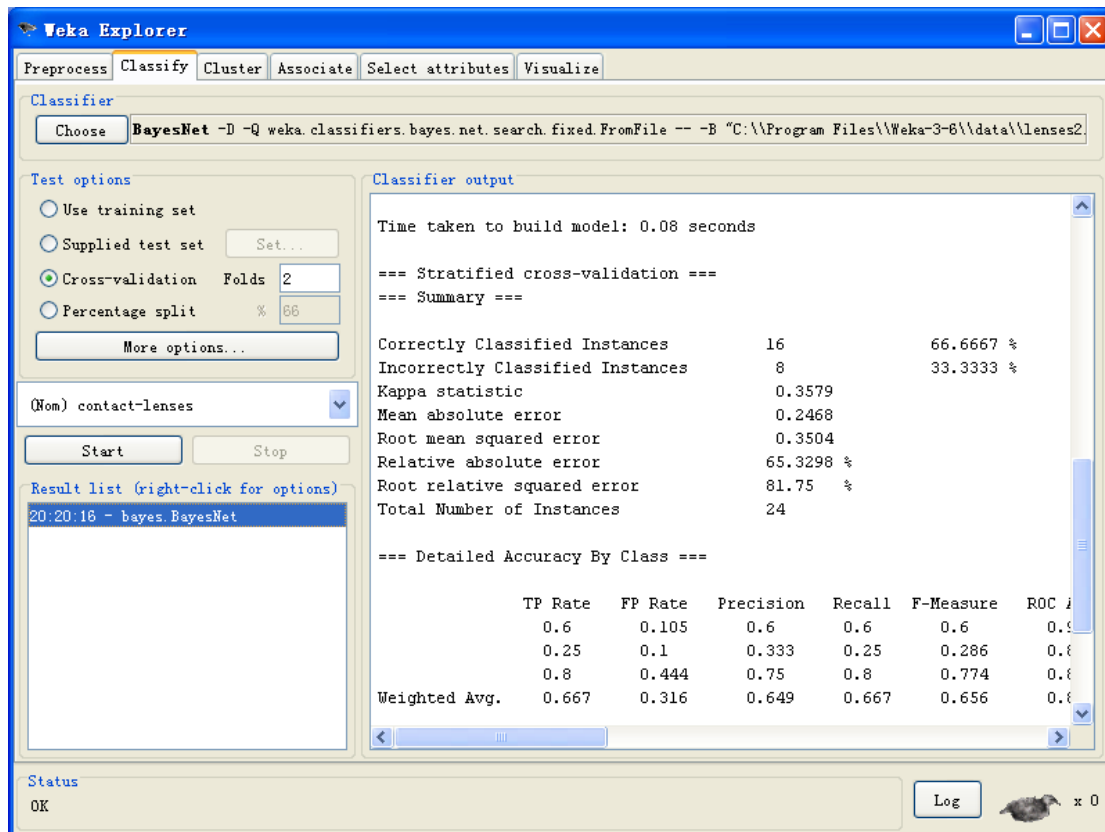
23. Click bold text “FromFile”



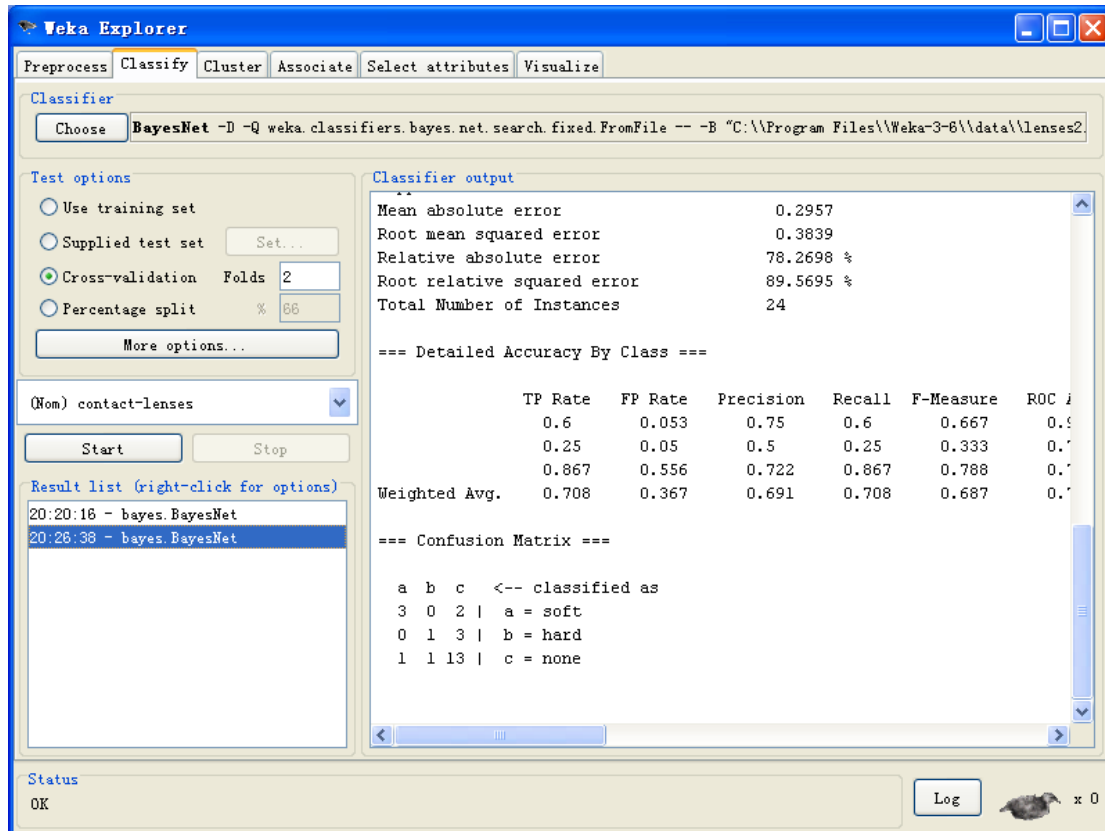
24. Change the file name to lenses2.xml



25. Press Ok,Ok



26. Press Start



27. Compare/visualize results by right/left click the lower-left window

