**Lab Instructions**

Download the sheet named “late\_early”. You will find three columns namely “Time”, “Late” and “Early”. Assume that 40 persons were polled as to what time they considered as being late for a party in the evening and also what time they considered as early for a party in the evening.

To interpret this data note that the data has been put in a cumulative format. For example, 1 person feels that 7.30 p.m. is late and everybody else feels that it is early in the third row. Again 2 persons feel that 8 p.m. is late in the fourth row. **This includes the person who felt that 7.30 is late.**

Write a program to read in the above data. Use the data to build discrete membership functions for “late” and “early”. Now use these two membership functions to find the support and membership function of the intersection of “late” and “early” fuzzy sets. Plot the membership function for the intersection.

Upload your code and results in Moodle by 10.30 a.m. Please remember that there are marks for submission and separate marks for correctness of code and results. So, do upload whatever you have been able to build. However, **do not copy from each other.**