IMPLEMENTATION OF ADAPTIVE NEURO FUZZY INFERENCE SYSTEM

TOOLBOX USED:
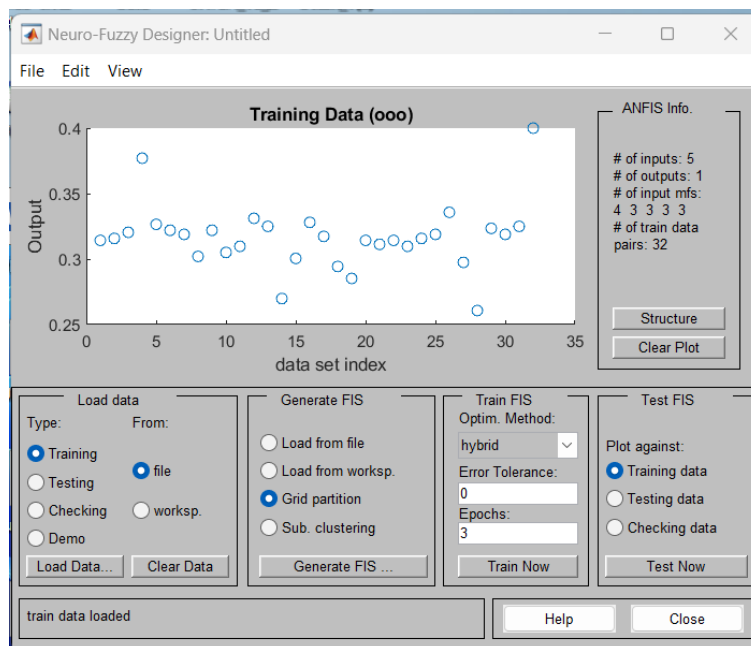
Anfisedit toolbox

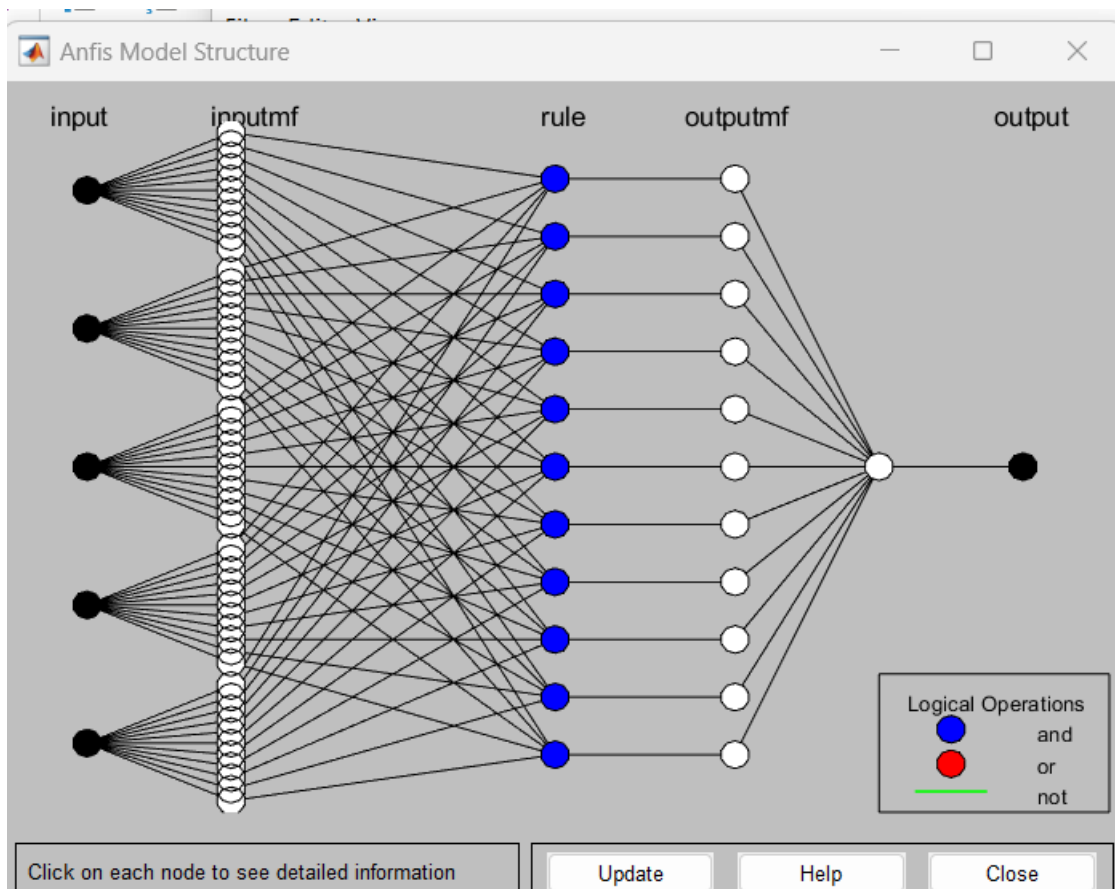## PROCEDURE:

Step1:importing the dataset to the anfisedit window:

212155	0.115634	0.912815	0.660638	0.291429	0.322086
213155	0.148936	0.994148	0.707447	0.271429	0.305215
214155	0.123959	0.984713	0.652128	0.295714	0.309816
215155	0.102683	0.998567	0.610638	0.311429	0.331288
216155	0.108233	0.994148	0.65	0.298571	0.325153
217155	0.076318	0.891676	0.714894	0.308571	0.269939
218155	0.068918	1	0.669149	0.318571	0.300613
219155	0.058742	0.88869	0.77766	0.257143	0.328221
511214	0.550879	0.898483	0.653191	0.298571	0.317485
512214	0.56383	0.898244	0.657447	0.3	0.294479
513214	0.551804	0.902305	0.520213	0.452857	0.285276
514214	0.549491	0.895736	0.658511	0.298571	0.314417
515214	0.553191	0.90123	0.58617	0.357143	0.31135
516214	0.551341	0.900991	0.66383	0.29	0.314417
517214	0.549029	0.899678	0.605319	0.342857	0.309816
518214	0.542553	0.895139	0.656383	0.297143	0.315951

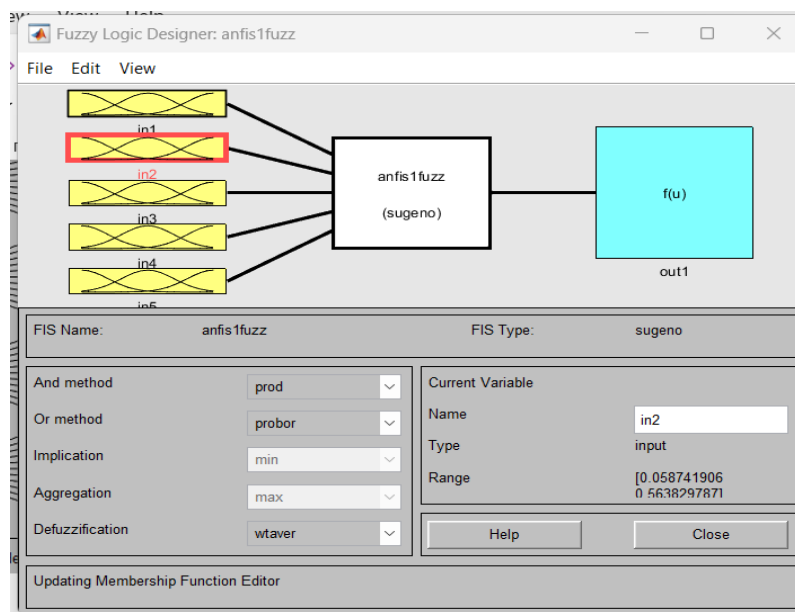## Step 2:the window appears in the following way:

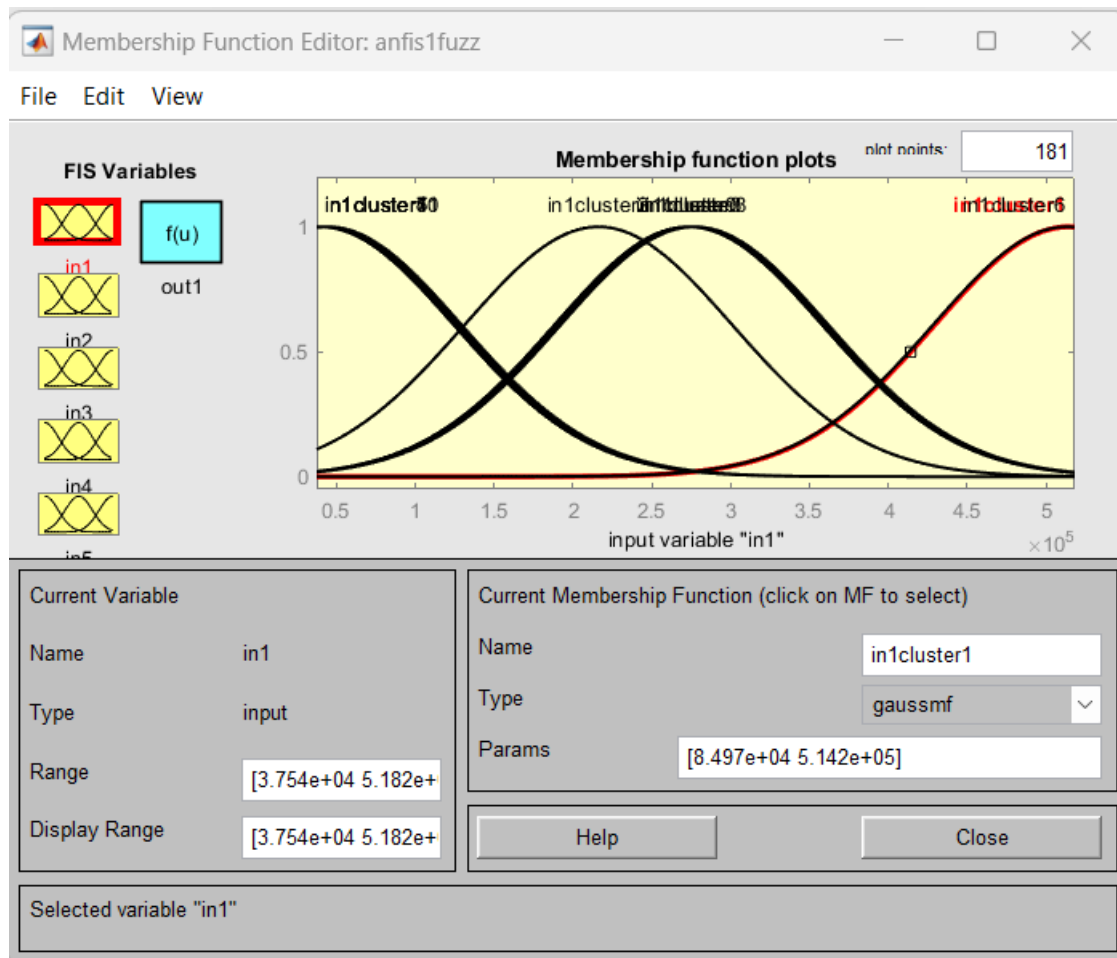## Step 3:After sub-clustering ,the following network is obtained:

Step 4:

An equivalent sugeno model is generated,with some rule base based on the network generated which can be done by importing the .fis file
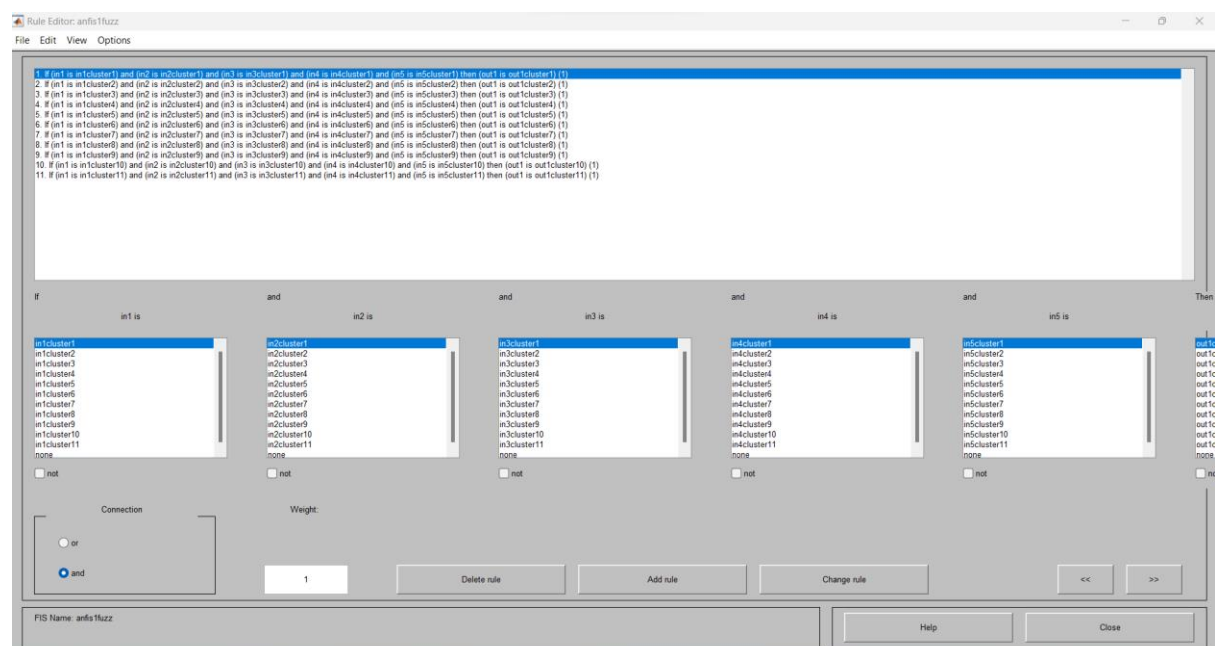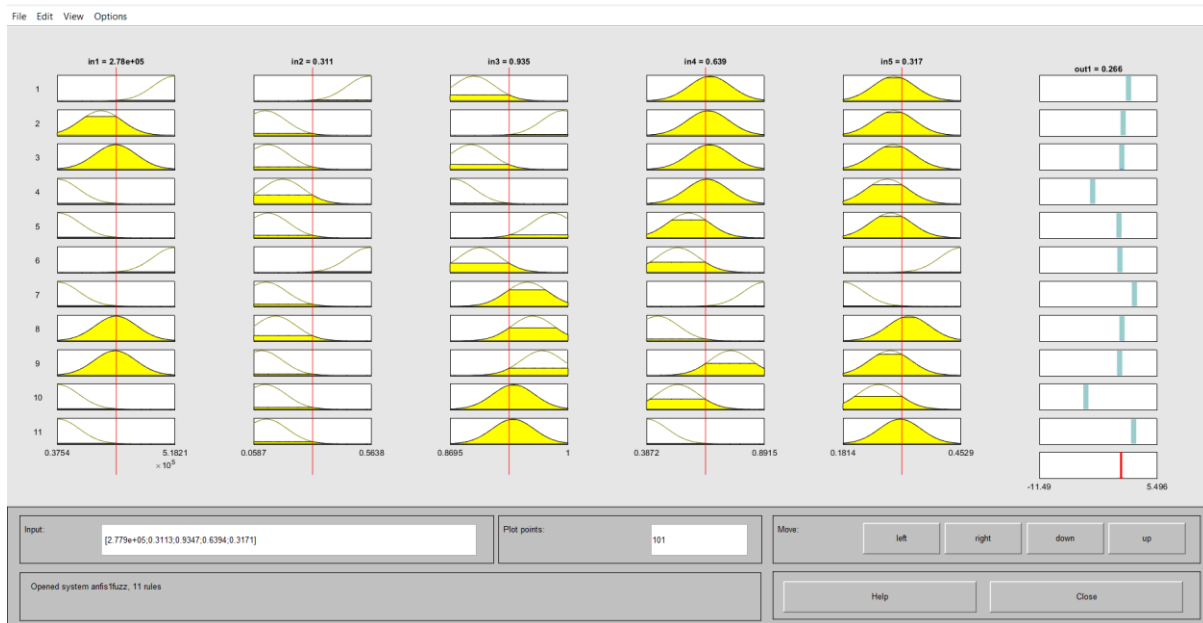
Step 5:

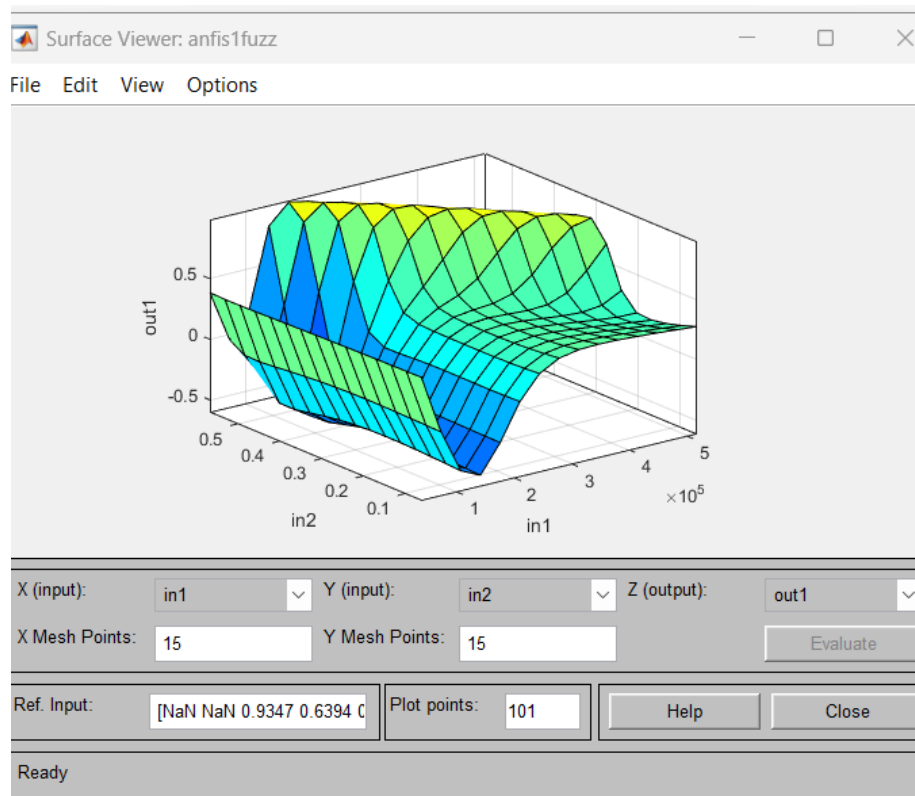Based on the network the member finctions are fixed automatically

Step:6 The rule base are as follows

Step 7:the output obtained is as follows:

Step 8:the 3d structure obtained is as follows:

Result:

Thus ANFIS implementation is done using anfisedit matlab toolbox