

Assignment 9 : IEC2017047

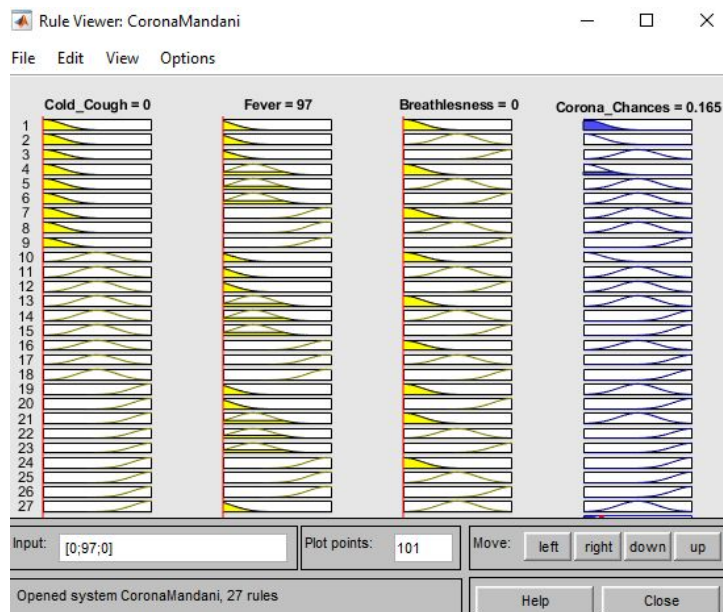
ANN-1

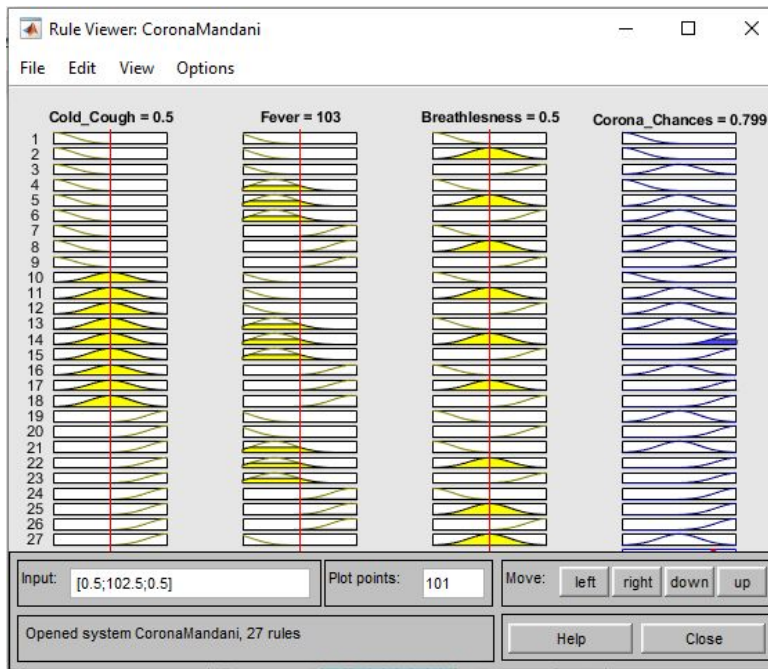
QUESTION DESCRIPTION:

Design a FIS to help doctors to diagnose whether a person has Coronavirus (COVID-19) infection or not based on symptoms. For designing FIS, use both Mamdani as well as Sugeno approaches and compare their results. Write comparative analysis as per your obtained results

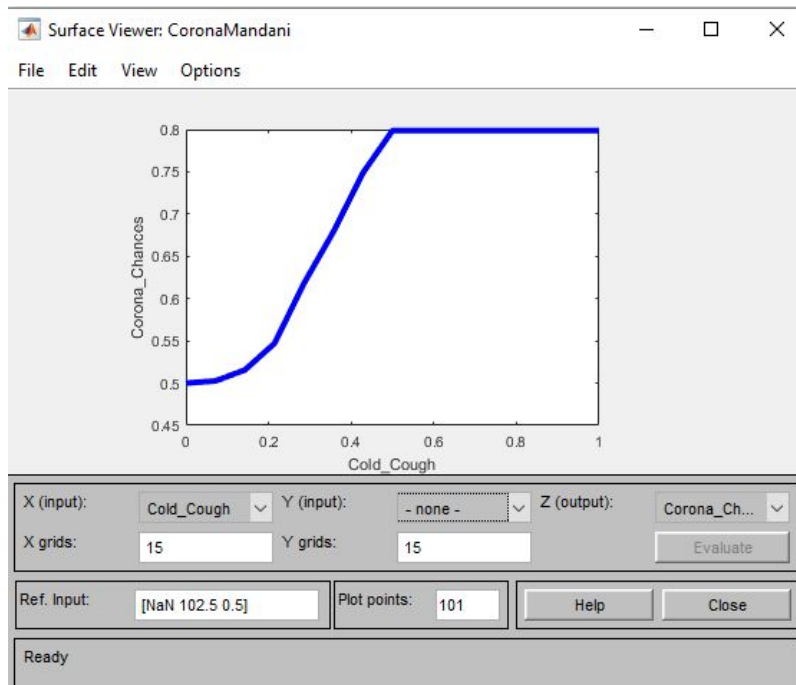
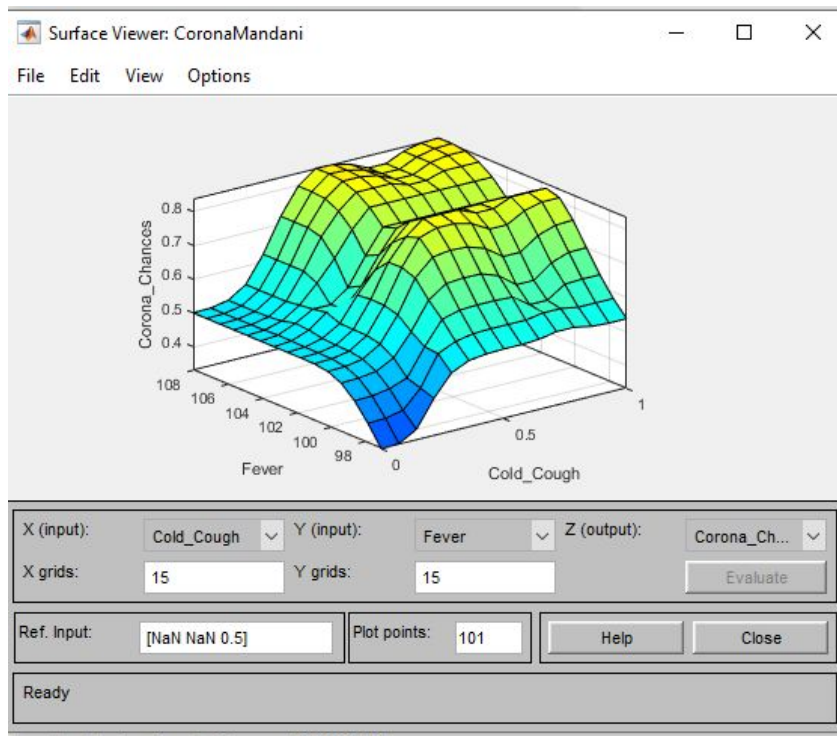
MAMDANI APPROACH:

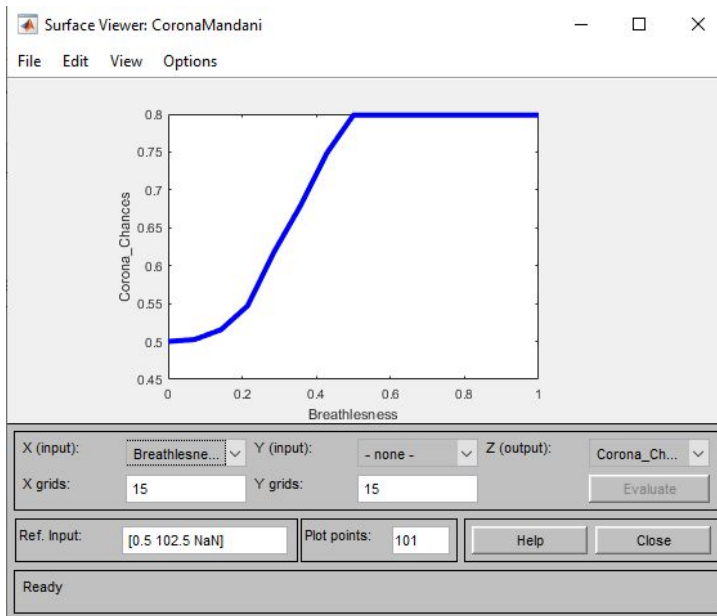
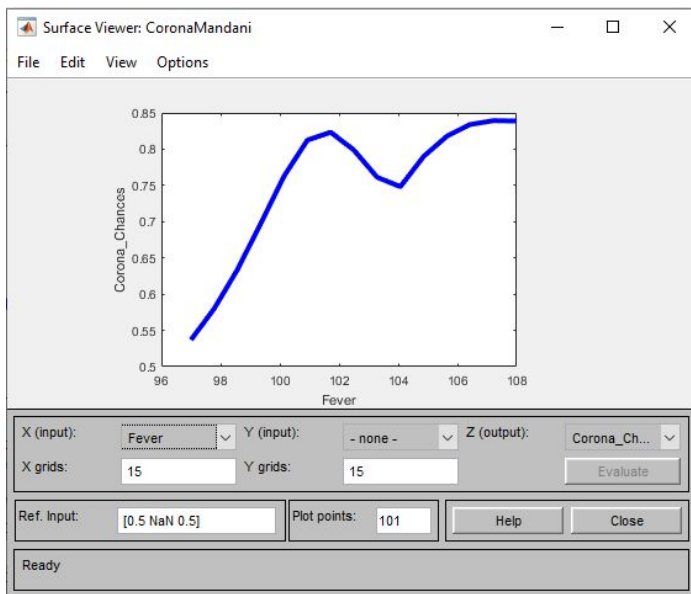
Rules





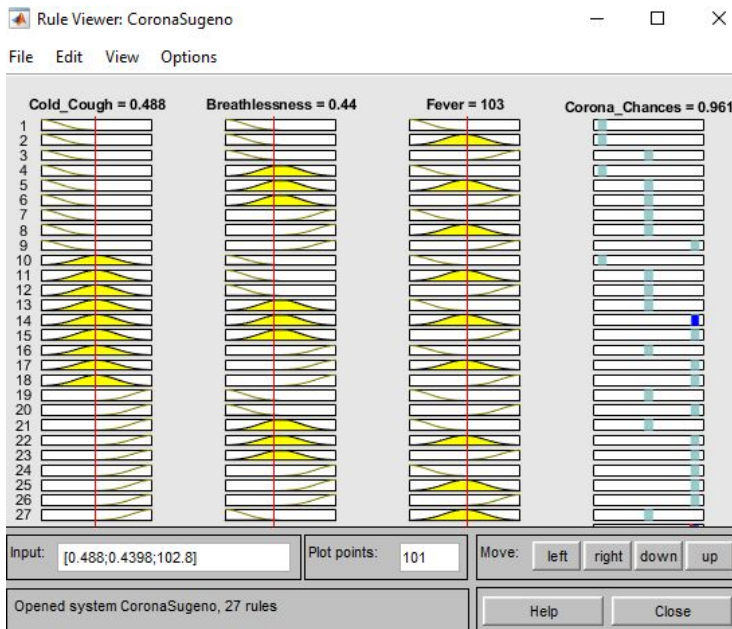
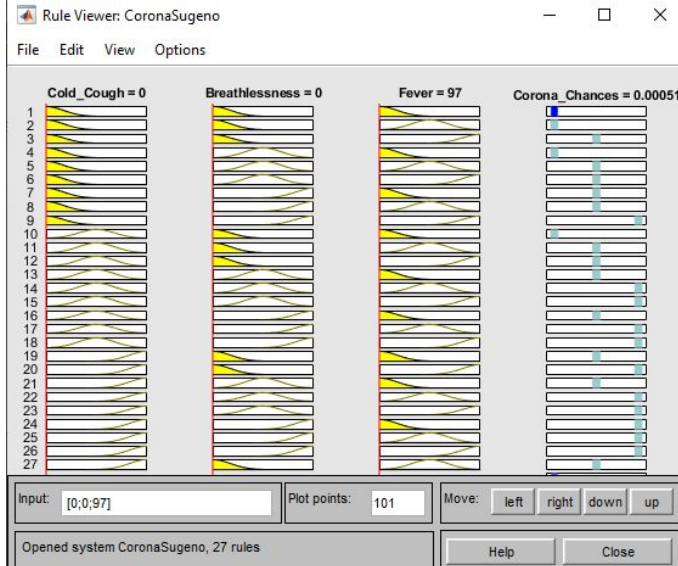
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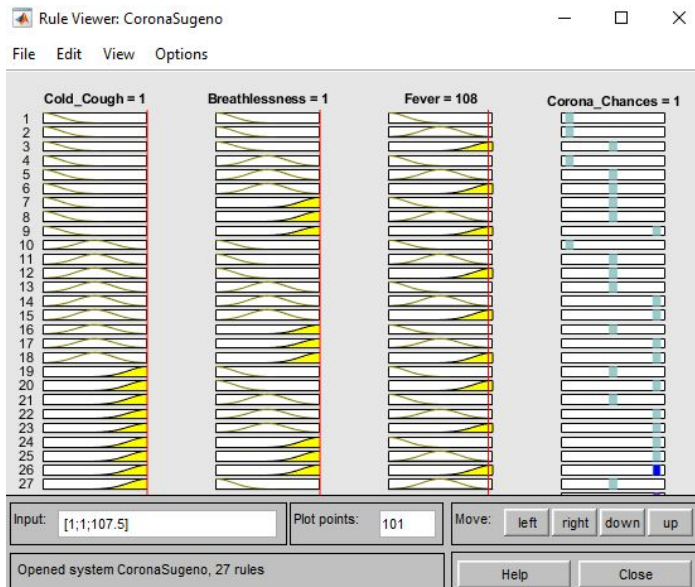




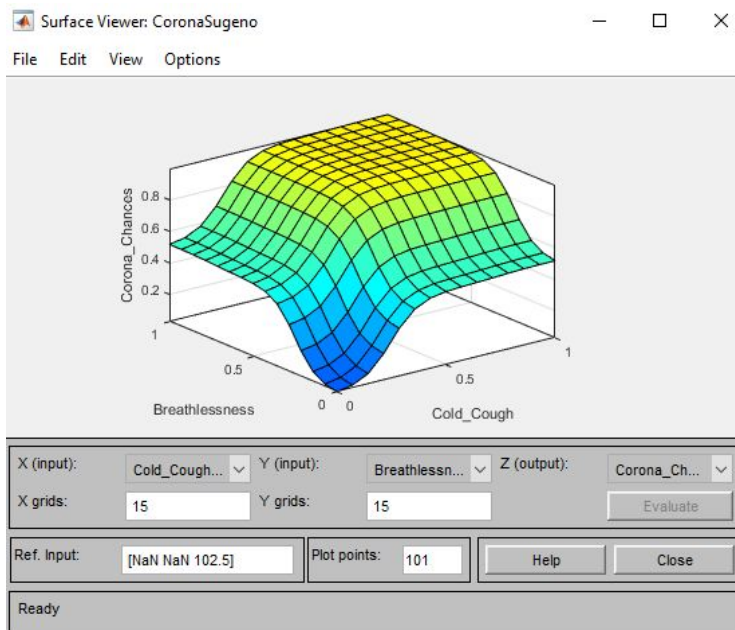
SUGENO APPROACH:

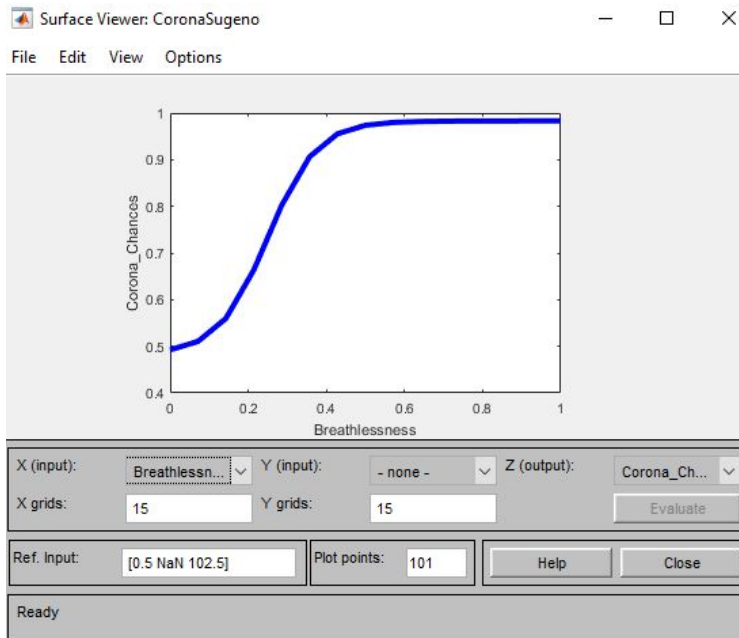
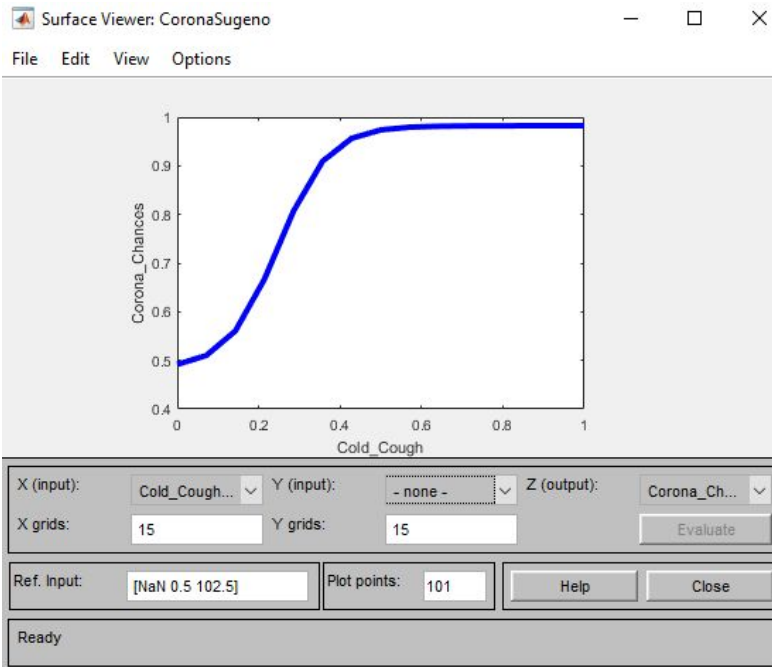
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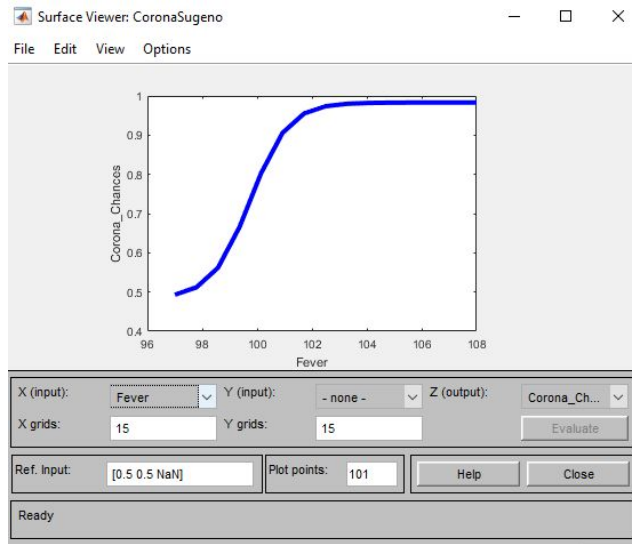




Surface







CONCLUSION:

In this case , the Sugeno approach gives best result as it gives crisp outputs not like one in Mandani which gives somewhat vague answers