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Assignment 11 - Fuzzy Logic

- Fuzzy_Addition.ipynb Implementation of Fuzzy Addition
- Fuzzy_Substraction.ipynb Implementation of Fuzzy
 Substraction
- Fuzzy_Multiplication.ipynb Implementation of Fuzzy Multiplication
- Fuzzy_Division.ipynb Implementation of Fuzzy Division
- COVID_Mamdani.fis Implementation of COVID inference system based on Fuzzy Logic using Mamdani method, based on seven input features: Fever, Headache, General Pain, Cold, Cough, Sore Throat and Shortness of Breath. The following has been created in Matlab using the Matlab Fuzzy Logic Toolbox. The rule for this file has been there in the Mamdani.png file.
- COVID_Sugeno.fis Implementation of COVID inference system based on Fuzzy Logic using Sugeno method, based on seven input features: Fever, Headache, General Pain, Cold,

Cough, Sore Throat and Shortness of Breath. The following has been created in Matlab using the Matlab Fuzzy Logic Toolbox. The rule for this file has been there in the Sugeno.png file.

- Mamdani.png Graphic representation of rules for COVID_Mamdani.fis as generated by Matlab.
- Sugeno.png Graphic representation of rules for COVID_Sugeno.fis as generated by Matlab.