AI Journal Practical 4

# Aim

To Implement Fuzzy Logic.

# Objective

1. To Understand how to implement fuzzy logic.
2. To get familiar with fuzzy tech sofware
3. To evaluate the Speed at which one should drive with the provided Temperature and Cloud Cover.

# Procedure

Create a new Temperature input variable.

* 1. Enter 110 for the Shell Value Maximum Value.
  2. Double Click the Terms to edit the X Axis Values from the default (low Medium High) to the appropriate values provided in the question.
  3. Double click Sunny and double click Membership Function and fill out the values for the X axis and Y Axis.

Ensure that the values entered are between the minimum and Maximum value range. Perform the same steps for all the other attributes.

Create a new Cloud Cover Input Variable.

* 1. Enter 100 for the Shell Value Maximum value.

Create Speed Output Variable.

* 1. Enter 100 for Shell Value Maximum.
  2. Choose the Method as Fast COA.

Edit the Values for the Temperature and Cloud Cover as per the values provided in the question.

Create a new rule block.

Connect the input and Output Variables to the Fuzzy rule Sets.

Input the Fuzzy Rule Sets in the Rule Block with the corresponding input and the output variables.

Under the Debug Menu choose Interactive and input the test values for Temperature and Cloud Cover and view the result speed value.

# Output





