

Lab Tasks

01. Define the rule base.

1. If the motor is running too slow, then more voltage.
2. If motor speed is about right, then no change.
3. If the motor speed is too fast, then less voltage

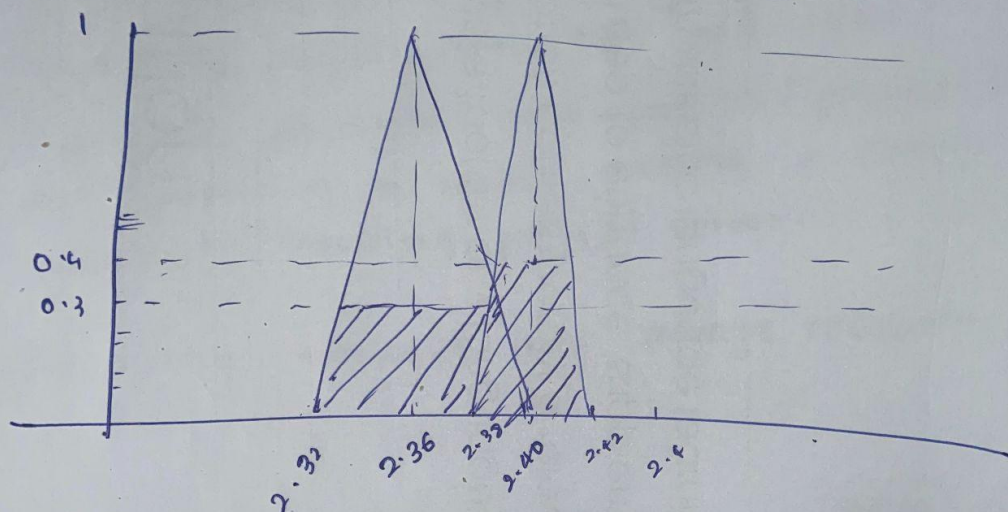
02.

Input function

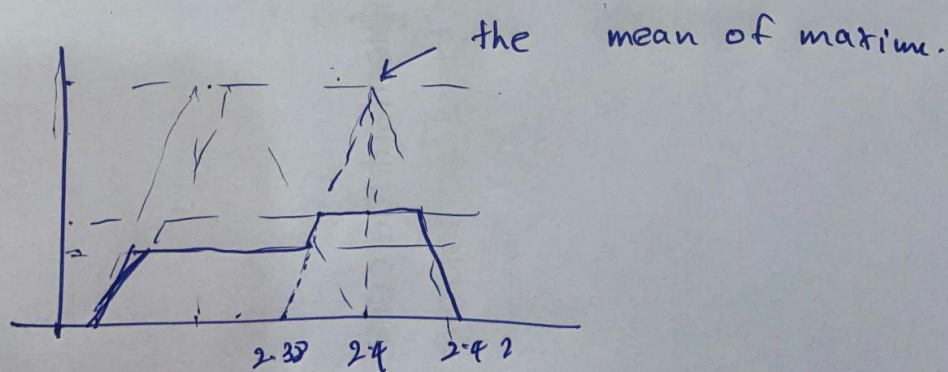
too slow - 0.0
about right - 0.4
too fast - 0.3

Fuzzy system fun

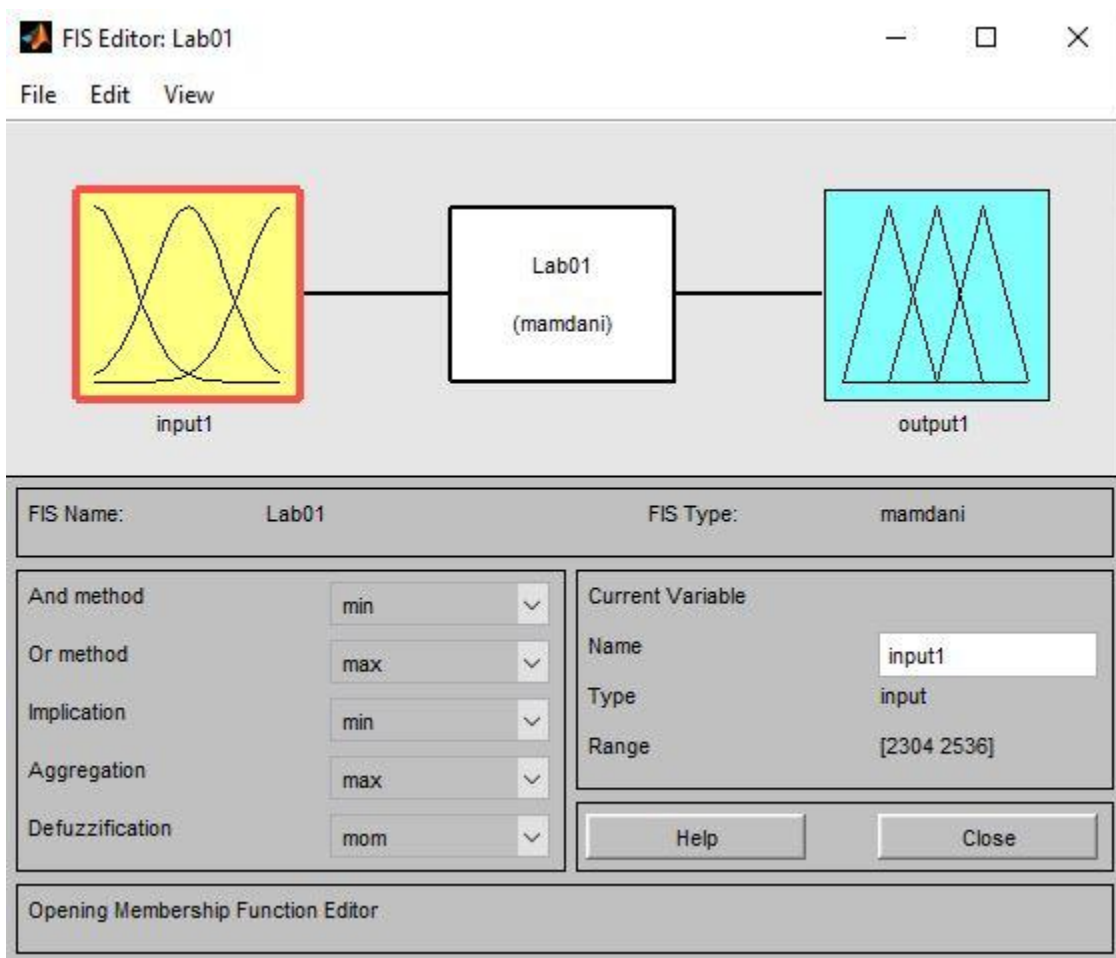
Speed up - 0.0
not char - 0.4
Slow down - 0.3

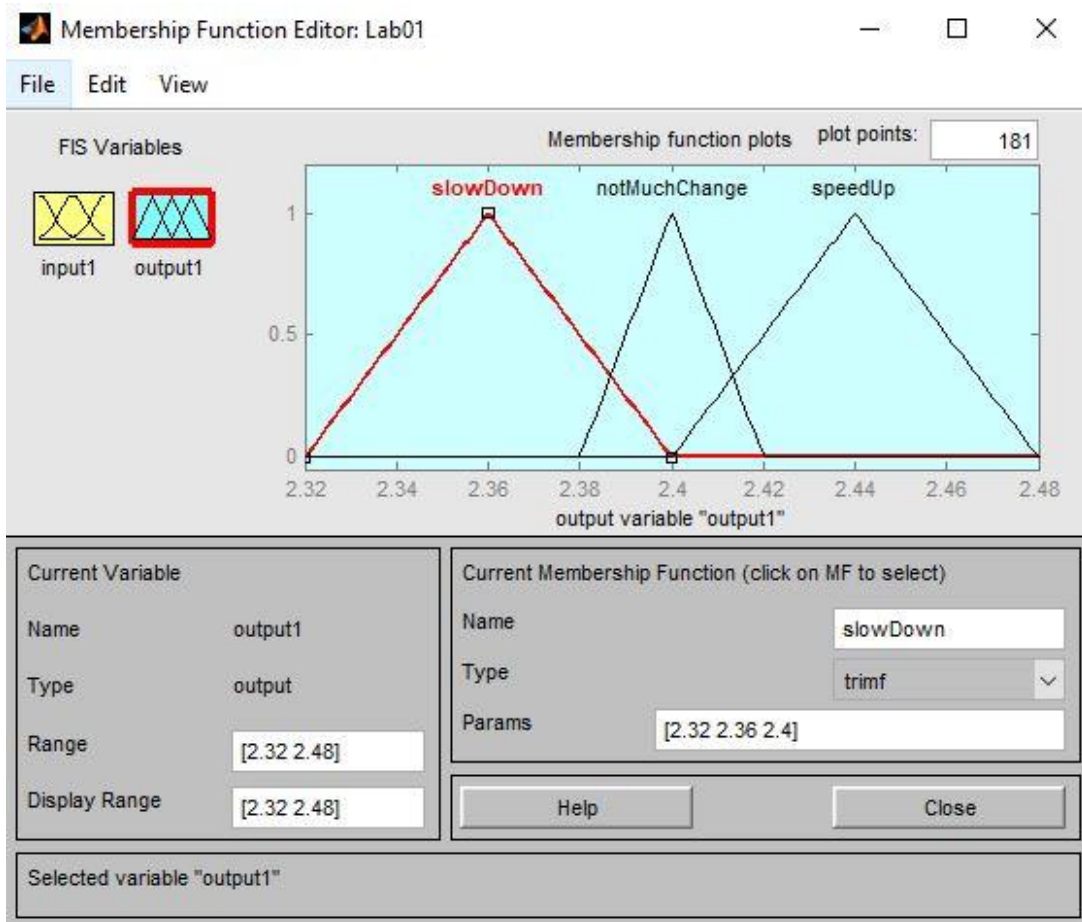
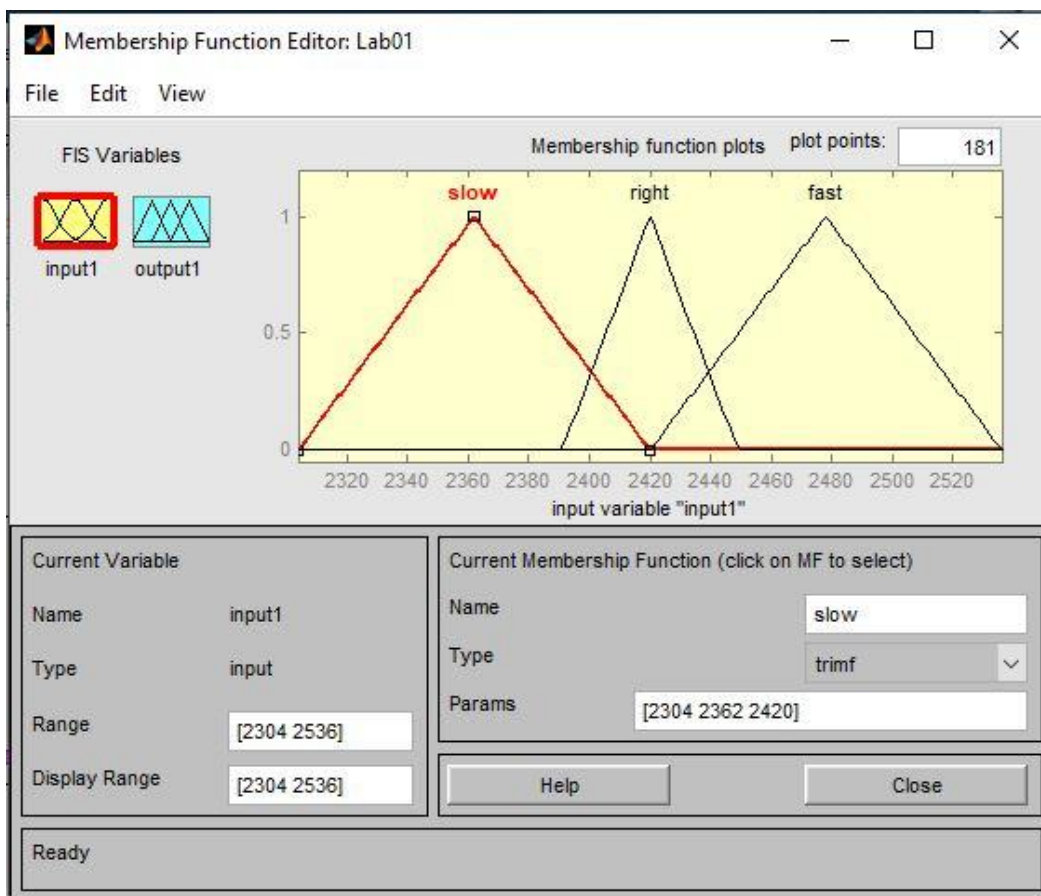


by considerin graph w can identif that
mean of maximum valtag is 2.40V



03.





Rule Editor: Lab01

File Edit View Options

1. If (input1 is slow) then (output1 is speedUp) (1)
2. If (input1 is right) then (output1 is notMuchChange) (1)
3. If (input1 is fast) then (output1 is slowDown) (1)

If input1 is

slow
right
fast
none

☐ not

Then output1 is

slowDown
notMuchChange
speedUp
none

☐ not

Connection

☐ or
☒ and

Weight:

1

Delete rule Add rule Change rule

FIS Name: Lab01

Help Close

Command Window

New to MATLAB? Watch this [Video](#), see [Examples](#), or read [Getting Started](#).

```
>> fis = readfis('F2_Motor');  
>> out=evalfis(2437.4,fis)  
  
out =  
  
2.4000  
fx >> |
```