Nama: Dwike Ikromi P.

Kelas: II-3A / 1841720010

## Fuzz Mamdan

$$X = permintaan -> 3500 -> 5000 | 1000 | 2 = perte librar -> 250 -> 600 | 1000 | 2 = prolitic -> ? -> 7000 | 2000 | 2000$$

### Javab!

#### 1) Fuzzification

Permintagn (x) = 3500

x turun = 
$$(5000 - 3500)/(5000 - 1000)$$

=  $1500/4000$ 

=  $0.375$ 

x Naik =  $(3500 - 1000)/(5000 - 1000)$ 

=  $2500/4000$ 

=  $0.625$ 

$$y = \frac{\text{jeth}}{\text{lense}} : (600 - 250) / (600 - 100) = \min \left( (0.625) \cdot (0.3) \right)$$

$$= 350 / 500$$

$$= 0.3$$

$$Rq \cdot \text{if } \times \text{nock } A \text{ y texik}$$

$$= (250 - 100) / (600 - 100) = \min \left( (0.025) \cdot (0.7) \right)$$

$$= 150 / 100$$

$$= 0.625$$

Models ?

Rs, if 
$$X$$
 naik  $A$   $y$  bangak,  $z$  ber tambah  $z$  min  $((0,625),(0,3))$ 

$$= 0,3$$

Rq. if 
$$x \text{ nak } A \text{ y text}, \text{ Z bertambah}$$
  
= min ((0.62t), (0,7))  
= 0,625

Max berkurung = 0,375

max bertand at = 0,625.

$$2_{1}$$
,  $0,375 = \frac{2}{(7000 - 2000)}$ 

$$(0.375.5000) + 2000 = 2,$$

$$3.875. = 2,$$

$$0.625 = \frac{7. - 2000}{5000}$$

Derzist keans sotaca
0,375
(t -2000)/(5000)
0.625

4.) Pequeziftar (Momen)

A. = 
$$\int_{0}^{3875} (0.375) Z QZ$$

= 0,187.  $Z^{2}$ 
 $\int_{0}^{3875}$ 

$$= 0,187.2 \int_{0}^{2} = 2.807.221.88$$

$$= 0,187. (3875)^{2} = 2.807.221.88$$

$$= \int_{3875}^{5745} \frac{(2-2000)}{5000} \frac{1}{2} \frac{1}{2$$

4.) Pefuzziftan (Momen)

A. = 
$$\int (0.375) Z DZ$$

=  $0.187.Z^2 \int_0^{1875}$ 

=  $0.187.Z^2 \int_0^{1875}$ 

=  $0.187.(3875)^2 = 2.807.221.88$ 

Site  $0.187.(3875)^2 = 2.807.221.88$ 

$$\frac{2 = 2.807.921.88 + 3.765.833.98 + 7.047.656.25}{1453.125 + 1501.56 + 1125}$$

$$= \frac{13.621.412.1}{9072.685} = 3338.8 \approx 3.339 \text{ botol.}$$



# Fuzz Sugeno

					Max	Min
X	2	permint aan	-> 1777	-,	2000	500
y	=	persedoan -	2 35	-, ]	300	100
2	:	produls: -)	?	-,]	9000	500

# Jawas

### 1. Fuzzification

Permintagn = 
$$1777$$
  
turun =  $(2000 - 1777)/(2000 - 500)$   
=  $0.148$   
Paik =  $(1777 - 500)/(2000 - 500)$   
=  $0.851$   
Percensean =  $235$   
ULH =  $(300 - 235)/(300 - 100)$   
=  $0.325$   
bangak =  $(235 - 100)/(300 - 100)$ 

#### 2. Implikati

## 3. Defuzzification

$$Z = a_1 \cdot z_1 + a_2 \cdot z_2 + a_3 \cdot z_3 + a_4 \cdot z_4$$

$$a_1 + a_2 + a_3 + a_4.$$