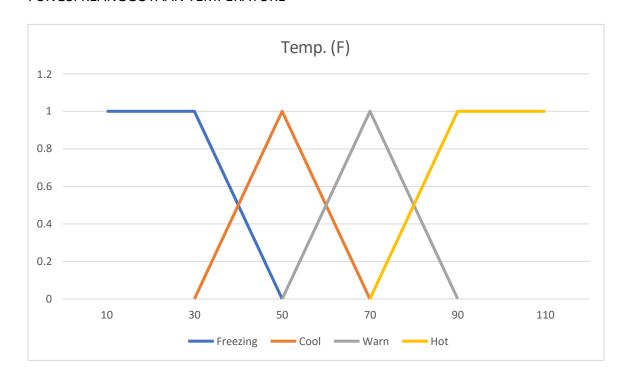
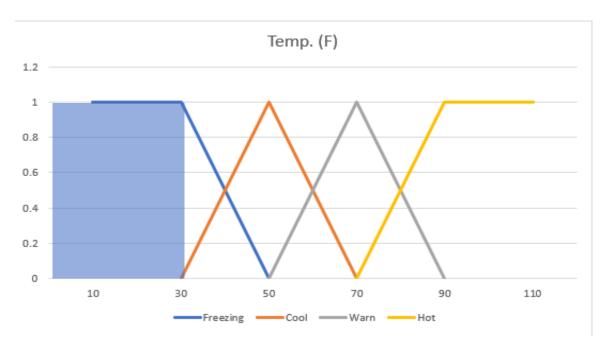
Nama: Ari Asyari Nim: 191011402227 Kelas: 06TPLE007

FUZZYFICATIONFUNGSI KEANGGOTAAN TEMPERATURE

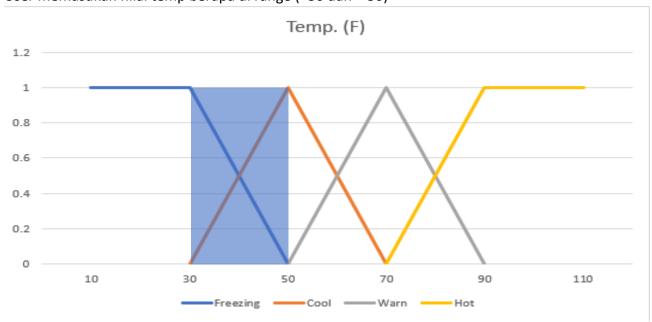




Jika Temp <= 30

Freezing bernilai 1 Cool bernilai 0 Warn bernilai 0 Hot bernilai 0

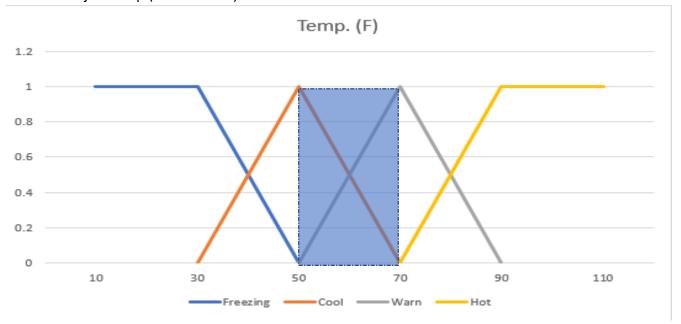
Lalu pada peluang berikutnya
 User memasukan nilai temp berapa di range (>30 dan < 50)



Freezing = 50 - temp / 50 - 30Cool = temp - 30 / 50 - 30 Warm = 0Hot = 0

- Lalu apabila temp = 50, maka nilainya adalah mutlak

- Lalu jika temp (>50 dan <70)



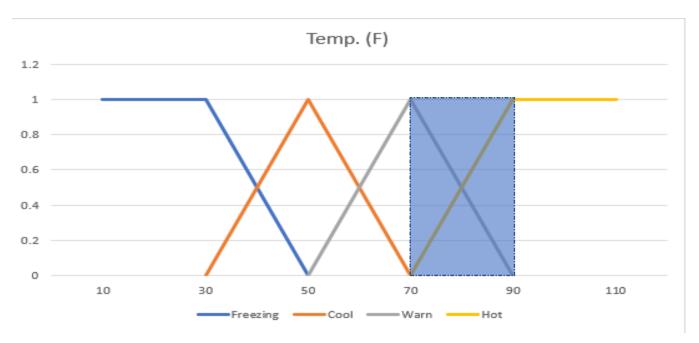
Freezing = 0

Cool = 70 - temp / 70 - 50Warm = temp - 50 / 70 - 50

Hot = 0

- Lalu apabila temp = 70, maka nilainya adalah mutlak

- Lalu apabila temp = (>70 dan <90)



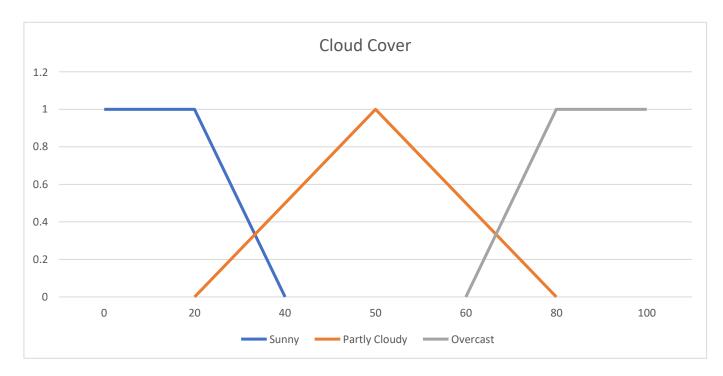
Freezing = 0Cool = 0

Warm = 90 - temp / 90 - 70Hot = temp - 70 / 90 - 70

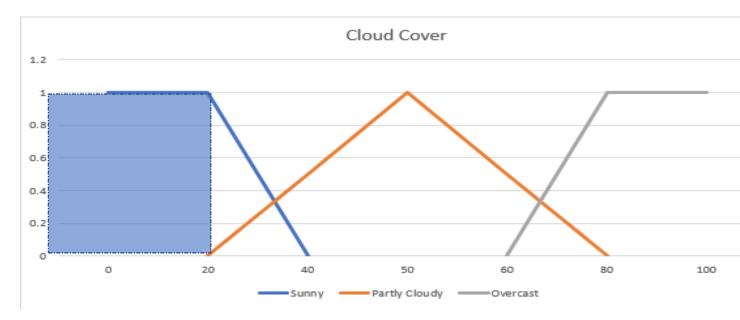
- Dan yang terakir temp >= 90

FUZZYFICATION

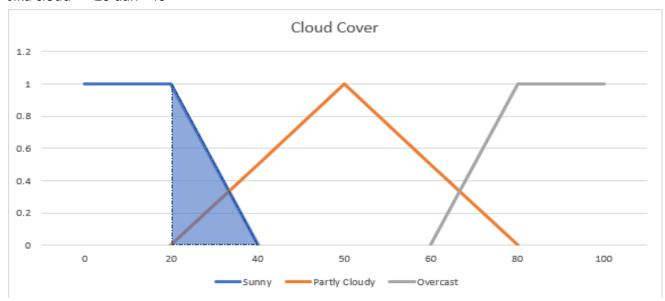
FUNGSI KEANGGOTAAN: CLOUD COVER



- Menghitung peluang jika cloud <= 20



Sunny = 1 Partly Cloudy = 0 Overcast = 0 - Jika cloud = >20 dan <40

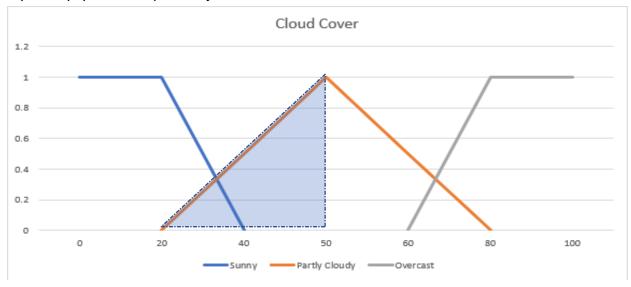


Maka:

Sunny = 40 - cloud / 40 - 20

Overcast = 0

Dan partly cloudynya maka seperti ini jika cloud > 20 dan < 50



Partly Cloudy = cloud - 20 / 50 - 20

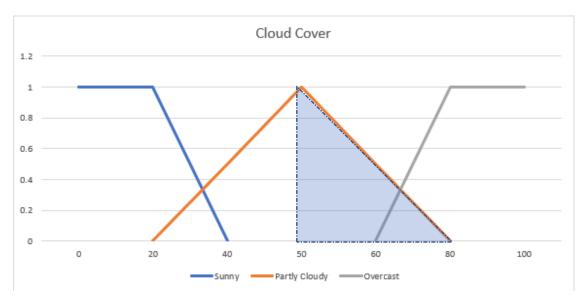
- Ketika mutlak berada di 50

Maka, Sunny = 0

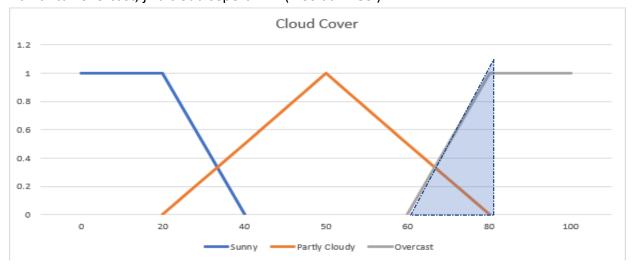
Partly Cloudy = 1

Overcast = 0

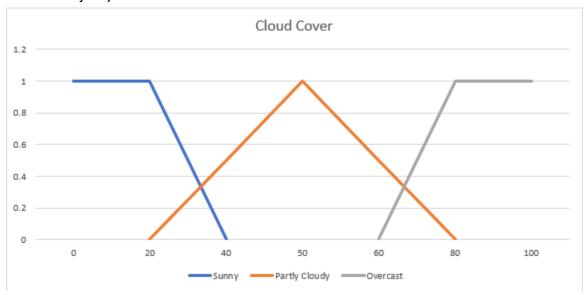
- Selanjutnya Ketika cloud berada di >50 dan <80



Maka sunny = 0
Partly cloudy = 80 -cloud / 80 -50
Dan untuk overcast, jika cloud seperti ini : (>60 dan <80)



Maka, Sunny = 0Overcast = cloud - 60 / 80 - 60 - Maka selanjutnya Ketika cloud >80



Maka sunny = 0 Partly cloudy = 0 Overcast = 1

SISTEM INFERENSI

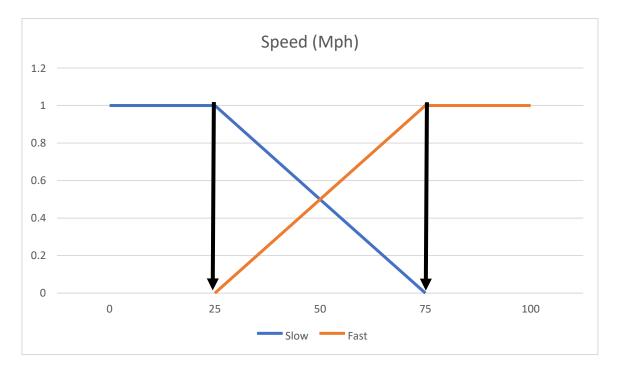
- JIKA HARI INI SUNNY AND WARM, MAKA DRIVE FAST Sunny(Cover)^Warm(Temp)=>Fast(Speed) Fast = (min(Sunny(Cover), Warm(Temp))
- JIKA HARI INI CLOUDY AND COOL, MAKA DRIVE SLOW Cloudy(Cover)^Cool(Temp)=>Slow(Speed) Slow = (min(Cloudy(Cover),Cool(Temp))

RULE

Jumlah aturan = jumlah variable temperature x jumlah variable cloud cover = $4 \times 3 = 12$

No	Rule
1	If Freezing and sunny then slow
2	If Freezing and prtly cloud then slow
3	If Freezing and overcast thenslow
4	If Cool and sunny then slow
5	If Cool and partly cloud then slow
6	If Cool and overcast then slow
7	If Warm and sunny then fast
8	If Warm and prtly cloud then fast
9	If Warm and overcast then fast
10	If Hot and sunny then fast
11	If Hot and partly cloud then fast
12	If Hot and overcast then fast

DEFUZZYFIKASI



Speed = weighted mean
= (slow * 25 + fast * 75) / (slow+fast)
= z mph