

- Step 2 : Membuat inferensi, Source code dibawah ini:

```
def inferensi(a):
    fol = fungsifollowers(followers[a])
    eng = fungsiengagement(engagement[a])
    cek = []
    L = []
    for i in range (len(fol)):
        for j in range(len(eng)):
            kelas = ruleinferensi(fol[i][1], eng[j][1])
            angka = min(fol[i][0], eng[j][0])
            L.append([kelas, angka])
            if kelas not in cek:
                cek.append(kelas)
    v = []
    for i in cek:
        y=[y for x,y in L if x==i]
        v.append([i,max(y)])
    return v
```

- Step 3 : Dengan menggunakan metode Mamdani, kategori-kategori yang telah dibuat diatas akan dicoba untuk menampilkan data yang diinginkan yaitu 20 influencer yang baik. Lalu mengoutput file 'chosen.csv' berupa indeks 20 influencer terbaik :

```
def defuzzi(k):
    L = [5, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70,75, 80, 85, 90, 95]
    for i in range(3):
        x=inferensi(k)
        tj, tl, tb = 0,0,0
        for j in x:
            if j[0] == "jelek":
                tj = j[1]
            elif j[0] == "lumayan":
                tl = j[1]
            elif j[0] == "bagus":
                tb = j[1]
        up = []
        down = 0
        for i in L:
            hasil= fungsisiapa(i, tj, tl, tb)
            if len(hasil) > 1 :
                maksimal = -1
                for j in range(len(hasil)):
                    maksimal = max(maksimal,hasil[j][0])
                hasil= maksimal
            else :
                hasil = hasil[0][0]
            up.append(i*hasil)
            down += hasil
        return sum(up)/down

L = []
for i in range(100):
    L.append([i, defuzzi(i), followers[i], engagement[i]])
a= np.asarray([[i,j,k] for i,j,k in sorted(L, key=lambda x : x[1], reverse=True)[:20]])
print(sorted(L, key=lambda x : x[1], reverse=True)[:20])
np.savetxt("hasilinfluencer.csv", a.astype(int), fmt="%i", delimiter=",")
```

Hasil program:

	A	B
1	1,38237,5	
2	10,95117,6	
3	12,90773,6	
4	15,38046,0	
5	18,55217,4	
6	24,77585,2	
7	32,44833,0	
8	37,30308,0	
9	45,42111,0	
10	46,46847,0	
11	47,19925,6	
12	48,42391,0	
13	49,43475,2	
14	58,58987,6	
15	59,58403,5	
16	60,53701,4	
17	61,33443,0	
18	64,34471,0	
19	65,46833,0	
20	68,45718,0	