

Fungsi Keanggotaan Input

1. Suhu Udara Luar

Dingin	$f(x, 0, 0, 5) = \begin{cases} 0; x < 0 \cup x > 5 \\ 0; 0 \leq x \leq 0 \\ \frac{5-x}{5}; 0 < x \leq 5 \end{cases}$
Sejuk	$f(x, 0, 4, 6, 10) = \begin{cases} 0; x < 0 \cup x > 10 \\ \frac{x}{4}; 0 \leq x < 4 \\ 1; 4 \leq x \leq 6 \\ \frac{10-x}{4}; 6 < x \leq 10 \end{cases}$
Hangat	$f(x, 5, 10, 10) = \begin{cases} 0; x < 5 \cup x > 10 \\ \frac{x-5}{5}; 5 \leq x \leq 10 \\ 0; 10 < x \leq 10 \end{cases}$

2. Suhu Udara Dalam

Sejuk	$f(x, 0, 0, 5) = \begin{cases} 0; x < 0 \cup x > 5 \\ 0; 0 \leq x \leq 0 \\ \frac{5-x}{5}; 0 < x \leq 5 \end{cases}$
Nyaman	$f(x, 0, 3, 7, 10) = \begin{cases} 0; x < 0 \cup x > 10 \\ \frac{x}{3}; 0 \leq x < 3 \\ 1; 3 \leq x \leq 7 \\ \frac{10-x}{3}; 7 < x \leq 10 \end{cases}$
Hangat	$f(x, 5, 10, 10) = \begin{cases} 0; x < 5 \cup x > 10 \\ \frac{x-5}{5}; 5 \leq x \leq 10 \\ 0; 10 < x \leq 10 \end{cases}$

3. Kelembaban

Kering	$f(x, 0, 0, 5) = \begin{cases} 0; x < 0 \cup x > 5 \\ 0; 0 \leq x \leq 0 \\ \frac{5-x}{5}; 0 < x \leq 5 \end{cases}$
Sedang	$f(x, 0, 4, 6, 10) = \begin{cases} 0; x < 0 \cup x > 10 \\ \frac{x}{4}; 0 \leq x < 4 \\ 1; 4 \leq x \leq 6 \\ \frac{10-x}{4}; 6 < x \leq 10 \end{cases}$

Lembab	$f(x, 5, 10, 10) = \begin{cases} 0; x < 5 \cup x > 10 \\ \frac{x-5}{5}; 5 \leq x \leq 10 \\ 0; 10 < x \leq 10 \end{cases}$
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Fungsi Keanggotaan Output

1. Kipas Angin

Lambat	$f(x, 0, 0, 12) = \begin{cases} 0; x < 0 \cup x > 12 \\ 0; 0 \leq x < 0 \\ \frac{12-x}{12}; 0 < x \leq 12 \end{cases}$
Sedang	$f(x, 0, 12, 25) = \begin{cases} 0; x < 0 \cup x > 25 \\ \frac{x}{12}; 0 \leq x \leq 12 \\ \frac{25-x}{13}; 12 < x \leq 25 \end{cases}$
Cepat	$f(x, 12, 25, 25) = \begin{cases} 0; x < 12 \cup x > 25 \\ \frac{x}{13}; 12 \leq x \leq 25 \\ 0; 25 < x \leq 25 \end{cases}$

2. Pendingin Udara

Sedikit	$f(x, 0, 0, 12) = \begin{cases} 0; x < 0 \cup x > 12 \\ 0; 0 \leq x < 0 \\ \frac{12-x}{12}; 0 < x \leq 12 \end{cases}$
Sedang	$f(x, 0, 12, 25) = \begin{cases} 0; x < 0 \cup x > 25 \\ \frac{x}{12}; 0 \leq x \leq 12 \\ \frac{25-x}{13}; 12 < x \leq 25 \end{cases}$
Banyak	$f(x, 12, 25, 25) = \begin{cases} 0; x < 12 \cup x > 25 \\ \frac{x}{13}; 12 \leq x \leq 25 \\ 0; 25 < x \leq 25 \end{cases}$

3. Pemanas

Rendah	$f(x, 0, 0, 12) = \begin{cases} 0; x < 0 \cup x > 12 \\ 0; 0 \leq x < 0 \\ \frac{12-x}{12}; 0 < x \leq 12 \end{cases}$
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Sedang	$f(x, 0, 12, 25) = \begin{cases} 0; x < 0 \cup x > 25 \\ \frac{x}{12}; 0 \leq x \leq 12 \\ \frac{25-x}{13}; 12 < x \leq 25 \end{cases}$
Tinggi	$f(x, 12, 25, 25) = \begin{cases} 0; x < 12 \cup x > 25 \\ \frac{x}{13}; 12 \leq x \leq 25 \\ 0; 25 < x \leq 25 \end{cases}$