

Matriks perbandingan antar kriteria :

	C1	C2	C3	C4
C1	1	5	2	3
C2	0	1	3	7
C3	0	0	1	3
C4	0	0	0	1
Jumlah	1	6	6	14

Normalisasi dan bobot kriteria :

	Normalisasi				Bobot kriteria
	C1	C2	C3	C4	
C1	$\frac{1}{1} = 1$	$\frac{5}{6} \approx 0.83$	$\frac{2}{6} \approx 0.33$	$\frac{3}{14} \approx 0.21$	$\approx 0.59$
C2	$\frac{0}{1} = 0$	$\frac{1}{6} \approx 0.17$	$\frac{3}{6} = 0.5$	$\frac{7}{14} = 0.5$	$\approx 0.29$
C3	$\frac{0}{1} = 0$	$\frac{0}{6} = 0$	$\frac{1}{6} \approx 0.17$	$\frac{3}{14} \approx 0.21$	$\approx 0.10$
C4	$\frac{0}{1} = 0$	$\frac{0}{6} = 0$	$\frac{0}{6} = 0$	$\frac{1}{14} \approx 0.07$	$\approx 0.02$

Matriks pembobotan alternatif :

Alternatif	Ukuran tanaman	Daya tahan	Pencahayaan	Harga	Jumlah
A1	3	3	2	2	11
A2	5	3	2	2	8
A3	1	1	3	1	10
A4	2	1	3	1	6

Matriks normalisasi :

	Ukuran tanaman	Daya tahan	Pencahayaan	Harga
	C1	C2	C3	C4
A1	$\frac{3}{11} \approx 0.27$	$\frac{3}{8} \approx 0.38$	$\frac{2}{10} = 0.20$	$\frac{2}{6} \approx 0.33$
A2	$\frac{5}{11} \approx 0.45$	$\frac{3}{8} \approx 0.38$	$\frac{2}{10} = 0.20$	$\frac{2}{6} \approx 0.33$
A3	$\frac{1}{11} \approx 0.09$	$\frac{1}{8} \approx 0.12$	$\frac{3}{10} = 0.30$	$\frac{1}{6} \approx 0.17$
A4	$\frac{2}{11} \approx 0.18$	$\frac{1}{8} \approx 0.12$	$\frac{3}{10} = 0.30$	$\frac{1}{6} \approx 0.17$

Bobot kriteria yang sebelumnya sudah dihitung :

	<b>Bobot kriteria</b>
<b>C1</b>	$\approx 0.59$
<b>C2</b>	$\approx 0.29$
<b>C3</b>	$\approx 0.10$
<b>C4</b>	$\approx 0.02$

Skor Alternatif (bobot kriteria \* matriks normalisasi alternatif) :

A1	$0.27*0.59+0.38*0.29+0.20*0.10+0.33*0.02\approx 0.1593+0.1102+0.02+0.0066$	0.2961
A2	$0.45*0.59+0.38*0.29+0.20*0.10+0.33*0.02\approx 0.2655+0.1102+0.02+0.0066$	0.4023
A3	$0.09*0.59+0.12*0.29+0.30*0.10+0.17*0.02\approx 0.0531+0.0348+0.03+0.0034$	0.1213
A4	$0.18*0.59+0.12*0.29+0.30*0.10+0.17*0.02\approx 0.1062+0.0348+0.03+0.0034$	0.1744

Kesimpulan :

Berdasarkan perhitungan ini, alternatif terbaik adalah **A2 (bambu kuning)** dengan skor 0.4023.