NAMA : NANDA PRAYOGI

NIM : A11.2021.13505

MATA KULIAH : SISTEM TEMU KEMBALI INFORMASI

KELOMPOK : A11.4703

**Perhitungan Ke-1**

G1 : Daun berwarna coklat

G2 : Bunga berwarna hijau

G3 : Rumput berwarna hijau

Q : Daun hijau

**Perhitungan Ke-2**

Perhitungan tf dan idf :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Q** | **G1** | **G2** | **G3** | **IDF(log)** |
| Rumput | 0 | 0 | 0 | 1 | log = 0.60205 |
| Bunga | 0 | 0 | 1 | 0 | log = 0.60205 |
| Daun | 1 | 1 | 0 | 0 | log = 0.30103 |
| Coklat | 0 | 1 | 0 | 0 | log = 0.60205 |
| Hijau | 1 | 0 | 1 | 1 | log = 0.12494 |
| Warna | 0 | 1 | 1 | 1 | log = 0.12494 |

Perhitungan Pembobotan :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Term** | **Q** | **G1** | **G2** | **G3** |
| Rumput | 0 | 0 | 0 | 0.60206 |
| Bunga | 0 | 0 | 0.60206 | 0 |
| Daun | 0.30103 | 0.30103 | 0 | 0 |
| Coklat | 0 | 0.60206 | 0 | 0 |
| Hijau | 0.12494 | 0 | 0.12494 | 0.12494 |
| Warna | 0 | 0.12494 | 0.12494 | 0.12494 |

**Perhitungan Ke-3**

Perhitungan Panjang vector

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Term | Q | G1 | G2 | G3 |
| Rumput | 0 | 0 | 0 | 0.362476 |
| Bunga | 0 | 0 | 0.362476 | 0 |
| Daun | 0.09062 | 0.09062 | 0 | 0 |
| Coklat | 0 | 0.362476 | 0 | 0 |
| Hijau | 0.01561 | 0 | 0.01561 | 0.01561 |
| Warna | 0 | 0.01561 | 0.01561 | 0.01561 |
| Jumlah | 0.10623 | 0.468706 | 0.393696 | 0.393696 |
| Akar | 0.325929 | 0.684621 | 0.627452 | 0.627452 |

Hasil Cosine

G1 = = = 0.406116

G2 = = = 0.07633

G3 = = = 0.07633

Hasil dari nilai kemiripan antara Query dengan Dokumen menghasilkan G1 dengan nilai kemiripan sebesar 0.406116