**Ans1:**

Dissim(0001, 0150) = 1 - = = 0.6

Dissim(0001, 0553) = 1 - = ≈ 0.857

Dissim(0001, 1011) = 1 - = 1

Dissim(0001, 3997) = 1 - = ≈ 0.833

Dissim(0150, 0553) = 1 - = 1

Dissim(0150, 1011) = 1 - = 1

Dissim(0150, 3997) = 1 - = 1

Dissim(0553, 1011) = 1 - = = 0.5

Dissim(0553, 3997) = 1 - = = 0.6

Dissim(1011, 3997) = 1 - = 1

dissimilarity matrix:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0001 | 0150 | 0553 | 1011 | 3997 |
| 0001 | 0 | 0.6 | 0.857 | 1 | 0.833 |
| 0150 | 0.6 | 0 | 1 | 1 | 1 |
| 0553 | 0.857 | 1 | 0 | 0.5 | 0.6 |
| 1011 | 1 | 1 | 0.5 | 0 | 1 |
| 3997 | 0.833 | 1 | 0.6 | 1 | 0 |