DAA: - IT-081 Panlihania Aanandi R.
longest Common Subsequence.
Analysis of the problem:
The longest common subsequence problem is finding the longest subsequence which exist in both the given strings.
Let $X = \langle x_1, x_2, x_3, \dots, x_m \rangle$ A $Y = \langle y_1, y_2, y_3, \dots, y_n \rangle$ be the sequences.
then we can say that 7 is the common subsequence of X and Y, if 7 is a subsequence of both X 4 Y. Z = \(z_1, z_2,, Zon \) For ey. let
In this procedure, table c[m,n] is computed in either Row Rmo or cmo
(Row major order) (Colymn "")

Design of the Algorithm: Algo: LCS-length-table-formulation (x, y) / [first in every row = 0] Pirst in every col = 0]

-) Ans: DCE To populate loop itena enates iterates n Hence, Time & Space Complexity