

## **LAB-9**

Q.1- Take names of two films and find the how many characters are common (maximum) using LCS.

Q.2-Given order of  $n$  matrices, find the minimum multiplication operations required to multiply  $n$  matrices.

For example, suppose you have three matrices –  
matrix A of order  $a*b$   
matrix B of order  $b*c$   
matrix C of order  $c*d$

The goal of the problem is to find the least number of operations required to find the product of the matrix chain. In the above explanation  $((A*B)*C)$  will take 231 multiplication operations,  $(A*(B*C))$  will take 180 multiplication operations. So, the preferred way of multiplication will be  $(A*(B*C))$ .