

Assignment 11  
(2D Array and Strings)

1. Write a program to input a matrix of size  $3 \times 4$ , Find the transpose of the matrix, store it and display it in another matrix.
2. Input two matrices of size  $m \times n$  and  $p \times q$ , write suitable code to multiply two matrices and store the result in a 3rd matrix.
3. Input a square matrix of size  $4 \times 4$ , Find the sum of the elements of upper triangular matrix.
4. In a small company there are five salesmen each salesman is supposed to sell their products. Write a program using 2-D array to print:
  - i. Total sales by each salesman.
  - ii. Total sell of each item.
5. Write a program to input a sentence and make 1st letter of every word to capital letter.
6. Write a program to input a string and check whether it is palindrome or not.
7. Write a program to extract a substring from a given string.