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| **MCA assignment -2 :**  **Topic: 1-d, 2-d arrays and strings** | | | |
| **Serial No:--** | **Program  Name** | **Remarks** | **Late  Submission** |
| **1.** | Write a program to take an array of numbers and sort in descending order |  |  |
| **2.** | Write a program to find minimum and maximum of an array |  |  |
| **3.** | Write a program to find mean, mode and standard deviations of a list of numbers. |  |  |
| **4.** | Write a program to swap odd positioned numbers with even positioned number in a array |  |  |
| **5.** | Write a program to search an element in the array. If it is found, print index else print "number is not found". |  |  |
| **6.** | Write the number of vowels & consonants of any entered line of  any input string. |  |  |
| **7.** | Write a program to insert an element in the array such that the resultant array remain sorted, |  |  |
| **8.** | Write a program (W.A.P.) to take one string then  print it in the reverse order and check whether the input string is Plindrome. |  |  |
| **9.** | Write a program to take a line of text then convert all the alphabets of it to uppercase. |  |  |
| **10.** | .Write a program to find norm of matrix  Norm of matrix= square root of sum of square of all elements in the matrix |  |  |
| **11.** | Write a program to find transpose of matrix |  |  |
| **12.** | Write a program to multiply two n x n matrices. |  |  |
| **13.** | Write a program to take two 2-D arrays then sort those two arrays, finally store the sum of them into a third array that will also be sorted. |  |  |
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| **14.** | Write a program to take one 2-D array, find the transpose of  it, finally print the multiplied value of the matrix with its transpose. |  |  |
| **15.** | W.A.P. to generate the  Pascal’s triangle :--  1  1 1  1 2 1  1 3 3 1  1 4 6 4 1…..upto 10 lines |  |  |
| **16.** | Write a menu driven program, consisting of following functions (on string),without using any library functions :--  Strlen()  Strcpy()  Strcat()  Strrev()  Strcmp() |  |  |
| **17.** | Write a program to input a line from keyboard then encode it to its next alphabet or digits, then print the newly generated line  e.g. Input :--   today is 27of September  Output:-- upebz jt 38 pg tfqufnafs |  |  |
| **18.** | Write a program to convert the capital letters of any string to small letter and vice-versa, finally print the changed string. |  |  |
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