

Assignment -8

1. Design and code an interactive program that will use functions to enter a matrix of m by n size, compute column averages and row averages and print them. (Note: Your program should work for variable dimensions).
2. Initialize two matrices, one of size 5 x 4 and other of size 4 x 5 using the following statement in appropriate place.

```
array[i] = rand( )%10;
```

Compute a third matrix obtained by the multiplication of the two matrices. The output matrix has to be printed from main().
3. Write a program that fills the main diagonal of a square matrix with zeros, lower-left triangle with the sum of the corresponding indexes of the elements of the matrix, upper-right triangle as the multiplication of the corresponding indexes of the elements of the matrix.
4. Write program that concatenate two strings of size atleast 10. Your program should store the result in a third string. The output string has to be printed from main(). Do not include string.h in your program.
5. Write sorts array of strings them in alphabetical order.