North South University

Department of Electrical and Computer Engineering

CSE 115L: Programming Language I Lab

Week 06 – Assignments

1. Write a program that fills an n*m 2D array (n, m are inputs) with user inputs and then calculates the sum of elements in the border of that array. For e.g., for the 2D array shown below, your program should compute the sum of elements in the gray region, i.e., sum = 5+2+4+0+1+9+2+1+0+5+5+3+0+3 = 40.

5	2	4	0	1
3	0	2	8	9
0	1	8	6	2
3	5	5	0	1

2. Write a program to pick up the largest & smallest number from any 5 rows by 5 column matrix.
3. Write a program to obtain transpose of a 4 x 4 matrix. The transpose of a matrix is obtained by exchanging the elements of each row with the elements of the corresponding column.
4. Write a program to add two 6 x 6 matrices.
5. Write a program to multiply any two 3 x 3 matrices.
6. Write a program to obtain the determinant value of a 5 x 5 matrix.