COURSE: (CL-1004) OBJECT ORIENTED PROGRAMMING LAB

LAB TASK # 5

WEIGHTAGE: 2

NOTE:
Only submit .cpp file of each question in a folder. Anyone who submits any other format file will get straight **ZERO.** Each question should have a separate .cpp file. Copy Paste or other UFM will also get **ZERO**. Use the following format for naming the folder Roll#_Name (P18-1234_NAME).

Q No. 1: Write a C++ program that will find maximum and minimum number in 2D array. Take number from user at run time (Initialize array by taking values from user).
Output should be like that:
Array values are:
28 33 38
1 48 12
44 27 10
Maximum Number is= 48
Minimum Number is= 1

Q No. 2: Write a C++ program that will add two 2D arrays elements. Take values from user at runtime. Note display values of 1^{st}, 2^{nd} and their resultant array.
Hints: A will be the 1^{st} array, B will be the 2^{nd} array and C will be resultant array.
Note: Follow Mathematics Matrix Addition Rules
Output should be like that:

Enter values for array initialization
a[0][0] =3
b[0][0] =4
a[0][1] =5
b[0][1] =34
a[0][2] =3
b[0][2] =5
a[1][0] =6
b[1][0] =7
a[1][1] =7
b[1][1] =7
a[1][2] =7
b[1][2] =6
a[2][0] =4
b[2][0] =9
a[2][1] =7

b[2][1] =5
a[2][2] =3
b[2][2] =5

Values of Array **a**

3 5 3
6 7 7
4 7 3

Values of Array **b**

4 34 5
7 7 6
9 5 5

Values of Array c (Resultant array) after addition of Array a and b

7 39 8
13 14 13
13 12 8

Q No. 3: Write a C++ program that will multiply two 2D arrays elements. Take values from user at runtime. Note display values of 1st, 2nd and their resultant array.
Hints: A will be the 1st array, B will be the 2nd array and C will be resultant array.
Note: Follow Mathematics Matrix Multiplication Rules
Output should be like that:

Enter values for array initialization
a[0][0] =3
b[0][0] =4
a[0][1] =5
b[0][1] =34
a[0][2] =3
b[0][2] =5
a[1][0] =6
b[1][0] =7
a[1][1] =7
b[1][1] =7
a[1][2] =7
b[1][2] =6
a[2][0] =4
b[2][0] =9
a[2][1] =7
b[2][1] =5
a[2][2] =3
b[2][2] =5

Values of Array a
3 5 3
6 7 7
4 7 3
Values of Array b
4 34 5
7 7 6
9 5 5
Values of Array c (Resultant array) after multiplication of Array a and b