

# Object Oriented Programming LAB – BSDSF22

(Morning and Afternoon)

## Lab 02 – 23-06-2023

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You have learned about the matrices in your math courses, and you know about how to add two matrices, subtract a matrix from another matrix, scalar multiple of a matrix, multiply two matrices, cofactor matrix, determinant of matrix, singular matrix, inverse of a matrix, division of a matrix by other matrix, null matrix, identity matrix, transpose of a matrix, and much more about matrices.

A square matrix of order 2 x 2 may be considered as composite data type with four values, say a11, a12, a21, and a22 as shown in figure on right.

$$\begin{bmatrix} A_{11} & A_{12} \\ A_{21} & A_{22} \end{bmatrix}$$

Here you have to create a class named Mat2by2 for a type representing 2 by 2 order square matrix. The data members of the class are a11, a12, a21, and a22. Add the appropriate functionality in the class using the OOP concepts you learned till today's LAB.

You may transform object of above mentioned matrix to string as of single line format <a11 a12 a21 a22>

You are provided with all the example codes discussed in the class sessions.

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