**Modern Education Society’s**

**College of Engineering, Pune**

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| **NAME OF STUDENT: CLASS:** |
| **SEMESTER/YEAR: ROLL NO:** |
| **DATE OF PERFORMANCE: DATE OF SUBMISSION:** |
| **EXAMINED BY: EXPERIMENT NO: DSL A-09** |

###### TITLE : Perform various operations on matrices

**PROBLEM STATEMENT:**  Write a **Python** program to compute following computation on matrix:

a) Addition of two matrices B) Subtraction of two matrices

c) Multiplication of two matrices d) Transpose of a matrix

### **OBJECTIVES:**

1. To understand structure of 2DArray.
2. To understand how to Create, Display and perform various operations on 2D array.

### **OUTCOMES:**

1. To analyze the problems to apply suitable algorithm and data structure.
2. To understand concept of multi-dimensional array.

**PRE-REQUISITES:**

* 1. Knowledge of python programming
  2. Knowledge of 2D array and matrix operations.

**APPARATUS:**

**QUESTIONS:**

1. What is sparse matrix? Explain with example.
2. Write algorithm to perform fast transpose on sparse matrix.