# **Advanced Programming**

# **Lab 1**

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# **Lab Documentation**

## About:

In this Lab I implemented the Matrix Calculator in Java. The Matrix Calculator is capable of multiplying 2 matrices, Add 2 matrices and Subtract 2 matrices. The Matrix Calculator takes input from the text file named “sample.txt”.

## General Instructions:

The Unit Tests are included in the source folder. Simply run each test case individually.

Test Cases :

* **Unit Test 1:** Multiplication of 2 Matrices
* **Unit Test 2:** Addition of 3 Matrices
* **Unit Test 3:** Multiplication of 2 Matrices and then addition of another matrice

## Sample File:

The Sample File contains 3 matrices. Each matrix is represented in a *single line.* The elements are separated by a comma and rows are separated by a semi-colon.

**NOTE**: The path set for the sample file is “D:\\sample.txt”. It can be changed at line no. 19 of MatrixCalculator.java

## Github Link :

<https://github.com/noman-rafi/Matrix-Calculator>