

aDVANCED PROGRAMMING

Lab 01



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BSCS – 2B

# **Matrix Calculator & Unit Tests**

First of all I take three matrices on which I’m performing different operation of matrix calculator.

A =

B =

C =

These matrices are stored in file

## **Working:**

First dynamic arrays are been made then read matrices from file line by line while using getline function, the format of file is designed as I can distinguish the matrices. So Matrices are stored in arrays.

## **Operations:**

Three operations

1. Addition of matrices
2. Subtraction of matrices
3. Matrix multiplication

## **Unit Tests:**

Four Unit tests for testing the functionality of code

1. Addition of matrices
2. Subtraction of matrices
3. Matrix multiplication
4. Answer of matrix multiplication of 2 matrices will be added in the third matrix

**You can change the dimensions of matrices in file according to your need, you can take any matrix from the file and perform any above operations with having different combinations.**

## **Link:**