**LAB#1**

**ADVANCED PROGRAMMING**

**Introduction:**

This lab is about matrix multiplication .I did write code for matrix multiplication iteratively and also for Strassen’s algorithm .I used 2d arrays to create matrices and used loops for iterative method.

**Approach:**

I used both approaches iterative and Strassen’s algorithm for matrix multiplication but the later one was better because it has less complexity than the iterative method.

**Analysis:**

Complexity of iterative algorithm for matrix multiplication is **O(n3).**

Complexity of Strassen’s algorithm for matrix multiplication is **O(n2.8074).**