INSTRUCTIONS:

This repository contains 4 important files

1) MatrixMultiplierFinal.cpp - C++ Source code for this program.
2) MatrixMultiplierFinal.exe - Executable file to directly run the program.
3) PRESENTATION FILE CONTAINS ALL THE EXPLANATION PART..

Instruction to Compile and Execute this program

Step 1:

Open the command prompt or the terminal in the project folder. Windows users, make sure to have a C/C++ compiler like MinGW or TDM-GCC installed in the machine, and proper environment variables set.

Step 2:

Run the following command in the terminal/ command prompt to compile the program. Make sure to link the openmp library by the command "- fopenmp".

g++ MatrixMultiplierFinal.cpp -o MatrixMultiplierFinal -fopenmp

Step 3:

Windws Users : Now, an executable file named "MatrixMultiplierFinal.exe" is created in the folder. Double click and open it Or type MatrixMultiplierFinal.exe in the command prompt.

Linux Users : Use the terminal to run the executable file. By running the following command in the terminal ./MatrixMultiplierFinal

Step 4:

Insert a letter according to your need. And then enter the sample size required. The letter representation is given below.

- s - serial
- p - parallel
- o - optimized

Eg:
First Enter "s" or "p" or "o"
Second Enter the sample size "200"

Program will run and print necessary details accordingly.