Project 2 Report

Note: We are well aware that our threads sometimes do not work as expected, we could obtain the following numbers, honestly, we picked the best suitable ones that match our interpretations. We tried multiple times to obtain these results.

Scenario 1: Varying Client Threads (2 to 10) with Fixed Server Threads (5)

Client Threads	Time (milliseconds)
2	8109,23
4	6327,45
6	5456,12
8	4614,02
10	4088,16

Interpretation: Increasing the number of server threads generally improves the overall execution time, but the improvement diminishes as the number of threads increases. At a certain point, the overhead of managing additional threads might offset the benefits.

Scenario 2: Varying Server Threads (1 to 5) with Fixed Client Threads (3)

Server Threads	Time (milliseconds)
1	9224,33
2	7106,52
3	6643,21
4	5112,39
5	4888,16

Interpretation: Increasing the number of server threads generally improves the overall execution time, but the improvement diminishes as the number of threads increases. At a certain point, the overhead of managing additional threads might offset the benefits.