**Performance Report**

**Assignment -1**

Ghritachi Mahajani, Naveena Ganesan

|  |  |  |  |
| --- | --- | --- | --- |
| **Instances** |  | **Avg. Response Time (ms)** | **Avg. Server Throughput(ops/s)** |
| 1 | Seller | 0.2405 | 4570 |
| Buyer |  |  |
| 10 | Seller | 0.8671 | 1270 |
| Buyer |  |  |
| 100 | Seller | 7.0068 | 163 |
| Buyer |  |  |

Seller: For evaluating the seller’s metrics, we are doing the following 1000 client operations: 1 ‘login’ + 999 ‘getProducts’. In this run, about 90 computations of Average Response Times are collected, and 1 value of Avg. Server Throughput is collected. For multiple clients, all values are averaged. As can be seen, there is an noticeable change in the metric values as more clients are handled simultaneously. When increasing number of concurrent clients from 10 to 100, the response time increased by a factor of about 29. Simultaneously, the throughput decreased sharply by a factor of 28. This means that the DB and server take longer to complete operations (DB access, query execution, sending response) as more clients try to execute the same functions.