Evaluation Images:

1. Throughtput for the Scenario 1 − 1 Client

```
naveenaganesan@Naveenas-MacBook-Air CSCI-5673-Distributed-Systems-Assignment-1 % python3 buyer_evaluation.py
Number of buyer instances: 1
Active connections: 1
Throughput: 6687.187009239256 operations/second
```

2. Throughtput for the Scenario 2 – 10 Client

```
naveenaganesan@Naveenas-MacBook-Air CSCI-5673-Distributed-Systems-Assignment-1 % python3 buyer_evaluation.py
Number of buyer instances: 10
Active connections:
Active connections: 10
Throughput: 1940.8333965732013 operations/second
Throughput: 1920.1295009215405 operations/second
Throughput: 1809.2434683884148 operations/second
Throughput: 1719.0355245690735 operations/second
Throughput: 1678.5474453431088 operations/second
Throughput: 1649.984048163139 operations/second
Throughput: 1598.4932415771723 operations/second
Throughput: 1548.4953290074104 operations/second
Throughput: 1514.492614946316 operations/second
Throughput: 1460.0126845508157 operations/second
```

3. Throughtput for the Scenario 3 – 100 Client

```
Active connections:
Active connections:
                      84
Active connections:
                      85
Active connections:
Active connections: Active connections:
                      87
Active connections: 89
Active connections: 90 Active connections: 91
Active connections:
Active connections: 93
Active connections: 94
Active connections: 95
Active connections:
Active connections: 97
Active connections:
Active connections:
Active connections: 100
Throughput: 206.98698731499596 operations/second
Throughput: 206.23434577682684 operations/second
Throughput: 201.629436187082 operations/second
Throughput: 201.40360551629175 operations/second
Throughput: 200.60623267182396 operations/second
Throughput: 200.0832427164412 operations/second
Throughput: 199.74322902149245 operations/second
Throughput: 197.04830443626284 operations/second
Throughput: 192.808054508228 operations/second
Throughput: 191.4347859901436 operations/second
Throughput: 191.258976527649 operations/second
Throughput: 190.60659355581004 operations/second
Throughput: 189.01077963819182 operations/second
```

4. Response time for the Scenario 1 – 1 Client

```
[naveenaganesan@Naveenas-MacBook-Air CSCI-5673-Distributed-Systems-Assignment-1 % python3 buyer_evaluation.py
Number of buyer instances: 1
Active connections: 1
Response time: 0.004058837890625
```

5. Response time for the Scenario 2 – 10 Client

6. Response time for the Scenario 3 – 100 Client

```
Active connections:
Active connections:
                     83
Active connections:
                     84
Active connections:
                     85
Active connections:
                     86
Active connections: 87
Active connections:
Active connections:
                     89
Active connections:
                     90
Active connections:
                     91
Active connections: 92
Active connections: 93
Active connections:
Active connections: 95
Active connections: 96
Active connections:
                    97
Active connections: 98
Active connections: 99
Active connections: 100
Response time: 0.007015037536621094
Response time: 0.008171272277832032
Response time: 0.008289813995361328
Response time: 0.008153581619262695
Response time: 0.008543682098388673
Response time: 0.008910298347473145
Response time: 0.00914297103881836
Response time: 0.009716129302978516
Response time: 0.009036827087402343
Response time: 0.009749031066894532
Response time: 0.010262513160705566
Response time: 0.010171818733215331
Response time: 0.00965256690979004
Response time: 0.010335278511047364
Response time: 0.011185383796691895
Response time: 0.011386728286743164
Response time: 0.011488723754882812
Response time: 0.011682939529418946
Response time:
               0.01180570125579834
Response time:
                0.011860084533691407
Response time: 0.012822318077087402
Response time: 0.01306309700012207
Response time: 0.014350366592407227
Response time: 0.013790512084960937
Response time:
               0.014067697525024413
Response time: 0.016600489616394043
Response time: 0.01587820053100586
Response time:
                0.01648259162902832
Response time: 0.016919994354248048
Response time: 0.016715025901794432
Response time:
                0.016592764854431154
Response time:
                0.016987061500549315
Response time: 0.017452001571655273
Response time: 0.01700568199157715
```