In this Assignment I have used Mongo DB as my NoSQL database. I implemented the same functionalities described in assignment 1 for mongo dB and surprisingly I found a similar results.

There were only 3 products and 2 products which were having stock levels less than 0 in the case of 9 and 10 threads respectively.

The exact values for the above plot are given below.

|  |  |  |
| --- | --- | --- |
| Number Of Threads | Operations | % of Products less than0 |
| 1 | 166352 | 0 |
| 2 | 228879 | 0 |
| 3 | 272002 | 0 |
| 4 | 286669 | 0 |
| 5 | 281962 | 0 |
| 6 | 261576 | 0 |
| 7 | 288426 | 0 |
| 8 | 292923 | 0 |
| 9 | 358558 | 0.03 |
| 10 | 373407 | 0.02 |

In case of MongoDB the checks were performed programmatically so that an invalid order is never placed. However, the program fails when the number of concurrent threads are more than 8.