OS ASSIGNMENT 2 REPORT

LINUX JACOBI PERFORMANCE

N = 11   N = 15   N = 20

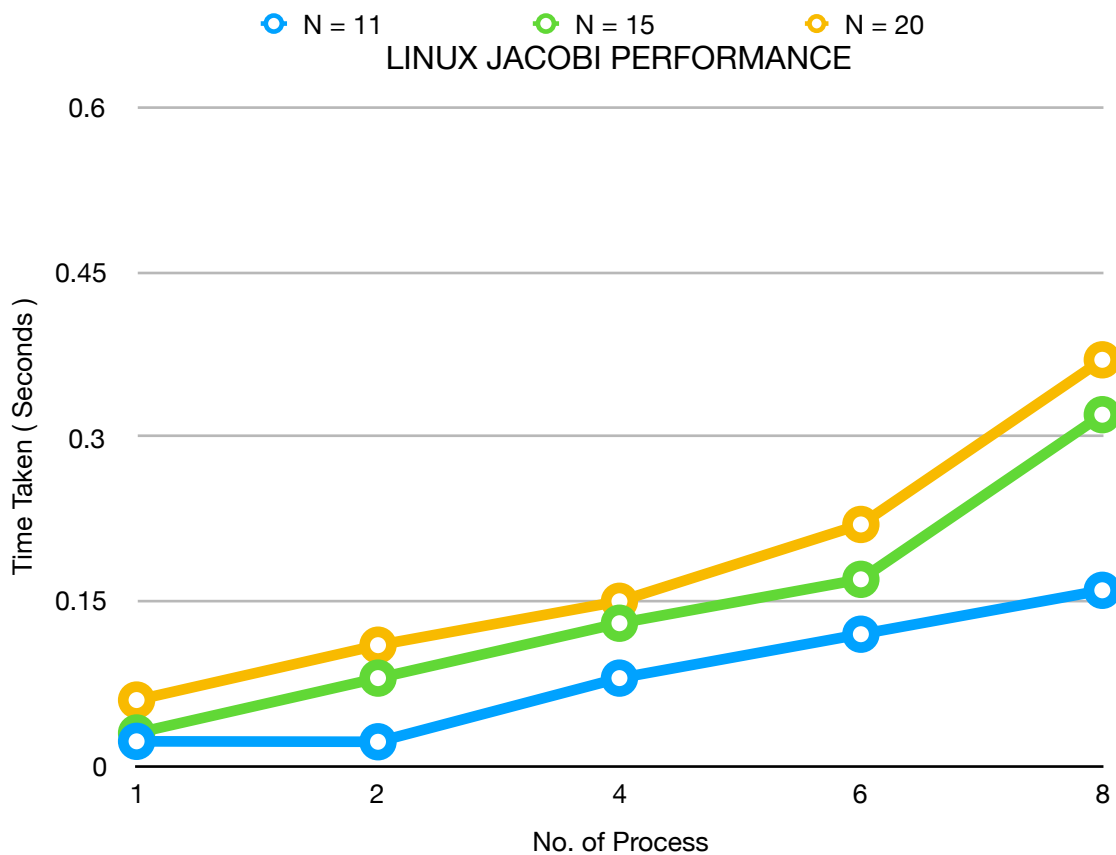**OBSERVATIONS**

The Curve is different from expected as we expect the Time Taken to reduce with high number of processes. I was running this code in my virtual box which had only 2 cores , so the curve obtained might be due to scheduling overheads and the overhead of the Virtual machine.
Best Curve Obtained for N = 11.
Expected Curve :
1. With Increase in the Processes the effective parallelisation increases.
2. Since only O(n) communication is required the performance increases.

CHECKING CORRECTNESS

Built a function to check weather the output of my code is same as the output of the serial code given by the TAs.