NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL

DEPARTMENT OF INFORMATION TECHNOLOGY

IT 301 Parallel Computing LAB 5

9th September 2020

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1. Develop a parallel program to find a given element in an unsorted array (a large number of elements starting from 10K can range to 1 lakh and above, based on the memory) using Linear Search. Compare the execution time with the Sequential Linear Search program. Also compare it with the sequential Binary Search program.

2. Develop a parallel program to find a given element in an unsorted array using Binary Search. Take a large number of elements upto the maximum possible size. Note: Make use of openmp task directive. Also compare the result with the sequential version of Binary Search.