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| Programme | : | **B.Tech.(CSE)** | Semester | : | **Fall ’22-23** | |
| Course | : | **Parallel and Distributed Computing** | Code | : | **CSE4001** | |
| Faculty | : | **R. Kumar** | Slot | : | **L9+L10** | |

1. Write a parallel program in openMP to create 8, 16 and 32 threads using runtime library routines. Construct an array of 10000 elements. Distribute the loop iterations to 32, 64, 128 concurrent threads with a chunk-size of 10, 20 and 50 using static, dynamic, guided and auto scheduling schemes. Find out the odd and even numbers global sum of 10K items. Record your execution times for the abovementioned schemes.
2. Write a parallel program to sort N elements in an array using OpenMP
3. Bubble Sort
4. Quick Sort