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Reg. No.: 16BCE0081

Slot: L45 + L46

Subject: Parallel and Distributed Computing (CSE4001) Lab

Experiment: 2

1. Program to check and print which iteration is done by which thread ID

2. Program to test execution times of sequential and parallel programming using matrix transpose.

```
double start0 = omp_get_wtime();
for(i=0;i<r;i++){
              for(j=0;j<c;j++){
                     b[i][j] = a[j][i];
double stop0 = omp_get_wtime();
double start1 = omp_get_wtime();
#pragma omp parallel
       #pragma omp for
       for(i=0;i< r;i++){}
              for(j=0;j< c;j++){
                     b[i][j] = a[j][i];
double stop1 = omp_get_wtime();
printf("-----\n");
printf("Sequential time = \% f \ n", (stop0-start0));
printf("----\n");
printf("Parallel time = %f\n", (stop1-start1));
printf("-----\n");
printf("\n\n");
return 0;
```

