Read me instructions.

1. Unzip manohara_assignment1.tar
2. Final folder which contains the subfolders
   a. Sequential – contains sequential program
   b. Openmp—contains openmp program
   c. MPI—contains MPI program
   d. openMPI- contains the bonus part—openMPI
   e. SSE-AVX ---contains the SSE-AVX

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Each sub folder contains the following. A SLURM.sh file, C program, Makefile, Output folder.
To compile the file .>> make all
>>to execute the program >> Sbatch SLURM.sh
Parameters in the SLURM file .
To set the number of node-- #SBATCH –nodes=<node of numbers want to be set>
To set the number of threads -- #SBATCH –number_of_task=<node of thread to be set>

Size of the problem is set ./<outputfile> <size of the problem>

The output of the c program can be set at the SLURM file.
The output of the program will be
>>
Number of prime count = 5761518       max value = 99999989
Total time = 16.089333 seconds

Program execution~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
For Openmp the following is required to run.
./<outputfile> <number of threads> <problemsize>

For OpenMPI
./<outputfile> <problemsize> <number of threads>

For rest of the programs

./<outputfile> <problemsize>
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End