Task 09 – Parallelization with CPU

1) Implement daxpy code (sum of two vectors d = x + y) using openmp directives, compare time wrt serial.
2) Implement daxpy code (sum of two vectors d = x + y) using MPI directives [since you are not using a cluster do not spawn more than 4 tasks (mpirun -np 4 ./your_daxpy.x) and limit the number of elements to no more than N = few 10^6], compare time wrt serial.
3) (Optional) Implement the reduction of the vector d (total_sum = sum(d)) using openmp and MPI, check that result is "equal" to the serial version.

NOTE: the openMPI library should be present in all linux distribution, so it is not necessary to compile it by yourself.