## Tutorial - 6

In this tutorial, you will get acquainted with Message-Passing Interface (MPI) by running the hello-world programs that were discussed in the lecture.

- 1. Download the MPI hello-world program that is available on Moodle (from the Lecture 18: Codes folder) and compile and run the same (either on your laptop/desktop or on AQUA). Convince yourself that the required number of messages are being printed depending on the number of processes you have requested.
- 2. Modify the given MPI program such that the host-process (designate this as process with rank = 0) sends a "Hello" message to all other processes available in the communicator and all the processes receive and print the message they received.
- 3. Write an MPI program in which the host-process (designated as process with rank = 0) receives a single integer value from all other processes and the host will receive the values and adds them and prints the final sum to the screen.