**High Performance Computing Lab**

**Practical No. 7**

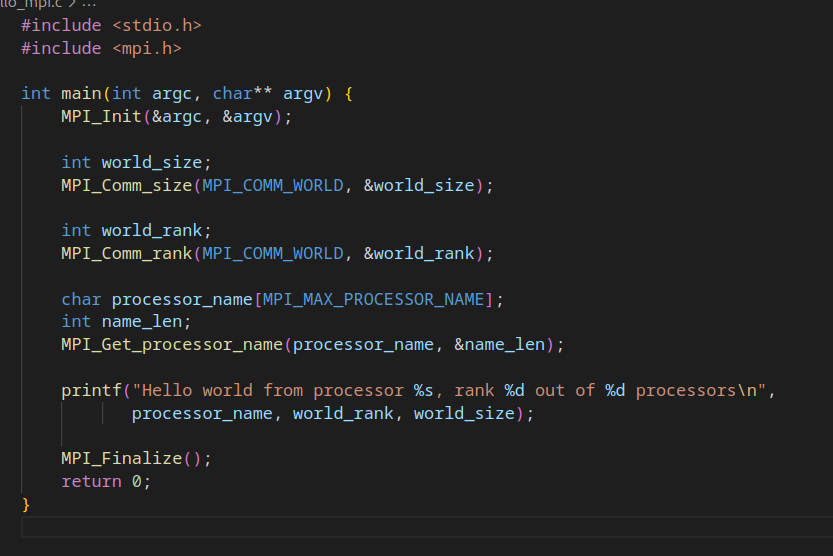
**Title of practical:**

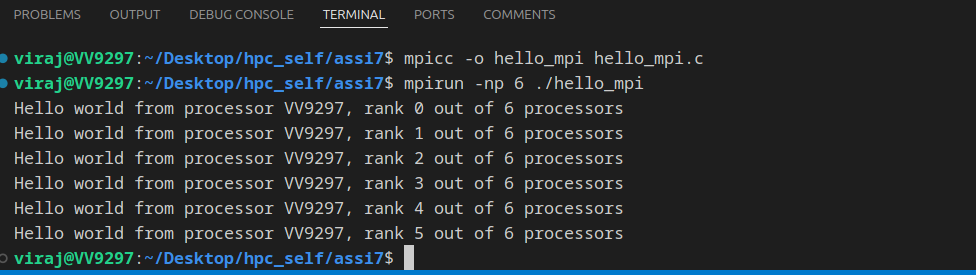
Installation of MPI & Implementation of basic functions of MPI

**Problem Statement 1:**

Implement a simple hello world program by setting number of processes equal to 10

**Screenshots:**

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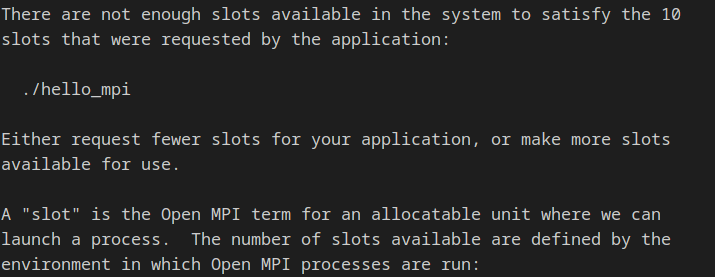
**Information:**

mpi init: initilizes the mpi environment and uses the command line argument to initilize the number of processes.

Then we determine the number of processes

then we take the rank of a processor and also the name and then finally print it

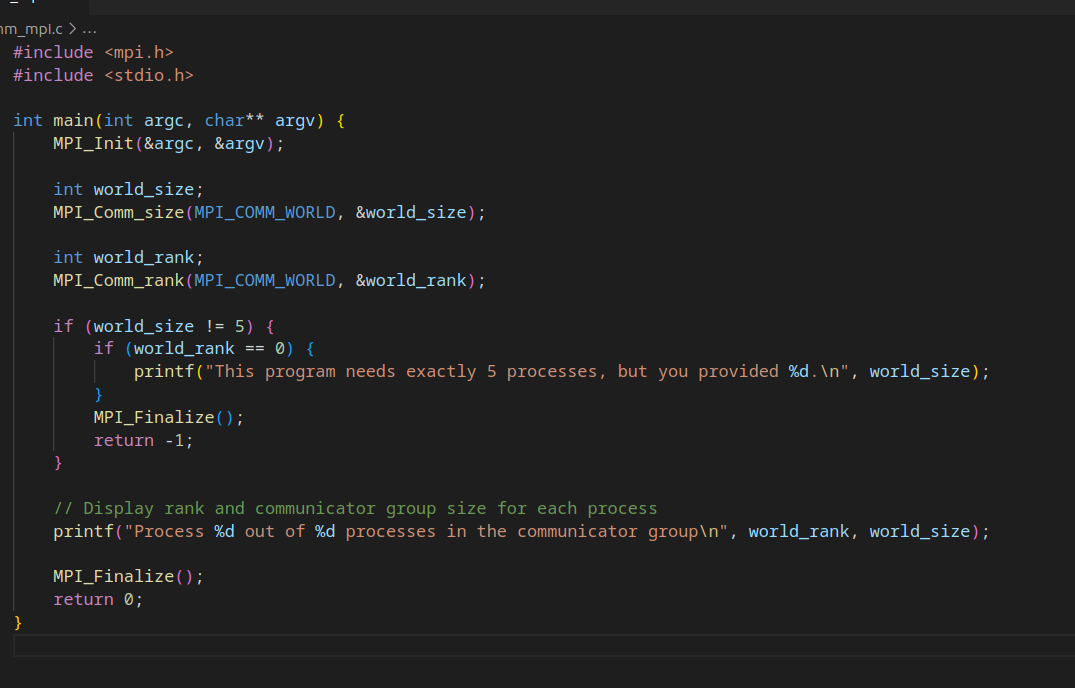
on my system 10 processes can’t be scheduled so i reduced it to 6

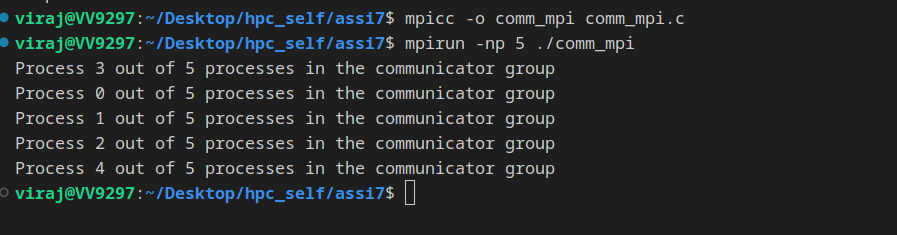


**Problem Statement 2:**

Implement a program to display rank and communicator group of five processes

**Screenshots:**



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**Information:**

A communicator group is a group of processes that communicate with each other currently there is only one communicator group with 5 processses