CSE4001 - Parallel & Distributed computing. glot: L29+L30.

DA-4.

Name: Artist Bose Tayore

write a MPI program to print the communication world parameters-data.

sol":

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1/ MPI program - prints comm world params

include < stdio h> # include <mpi. h>

int main (int orge, char "argues)?

int rank:

that processor name [MPI_MAX_PROCESSUR_NAME); int name_lun;

MPI_INIT (karge, Largv);

MPI_come_rank(MPI_comM_world, & rank);

MPI_come size (MPI_comm_world, k size);

MPI_Get_processor_name (processor_name, & name_les);

MPI_Finalize (), Tehun 0;

```
write a MPI Program to perform a point - to - point
 Qa.
       commication by sading a date
801":
       # include < stdis · h >
       Hinchede < mpi. h>
      int main (int argo, char argu []) [
            "ent rank, size;
             int send-data, received_data;
            MPI-Init (Large, Large);
             MPI _ com_ rank (MPI _ comM_ world, & rank);
            MP1 - comm_size (MP1_comm_worlde size);
             4(six <2) {
                fprintf (Stdelf, "This program requires attent
                     & prouses. ");
                MPI_About (MPI_COMM_WORLD));
          if (rank == 0) [11 ] the amo . 114
              send-data=42,
              MPI_Sud[kound-data, 1, MPI_INT, 1, 0,
                           MPI_COMM_WORLD);
              printf 1" Process o sunt data "din" sund_data);
            yels if (ronk ==1){
             MPI_Recail & received-data, 1;MPI_INIT, 0, 0,
                       MPI_COMM_WORLD, MPI_STATUS_IGNEDICE);
              partf (" pours 1 received date y. d/n, received
           MPI - Finalize ();
          neture"
```

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