CSE4001 - Parallel and Distributed Computing, Fall 2019 Vellore Institute of Technology Instructor: Prof Deebak B D - SCOPE

Lab report

Title of Lab: Beginning with MPI

Assessment #: 8 Date: 14|09|2019

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AIM: Write a basic MPI program.

SOURCE CODE:

```
#include<mpi.h>
#include<stdio.h>
int main(int argc, char** argv)
{
    MPI_Init(&argc, &argv);
    printf("Hello\n");
    MPI_Finalize();
    return 0;
}
```

EXECUTION:

SOURCE CODE:

```
#include<mpi.h>
#include<stdio.h>
#include<unistd.h>
int main(int argc, char** argv)
{
    int rank;
    char hostname[256];
    MPI_Init(&argc, &argv);
    MPI_Comm_rank(MPI_COMM_WORLD, &rank);
    gethostname(hostname, 225);
    printf("Hello, Iam process number: %d on host%s\n", rank, hostname);
    MPI_Finalize();
    return 0;
}
```

EXECUTION: