NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL

DEPARTMENT OF INFORMATION TECHNOLOGY

**IT 301 Parallel Computing LAB 8**

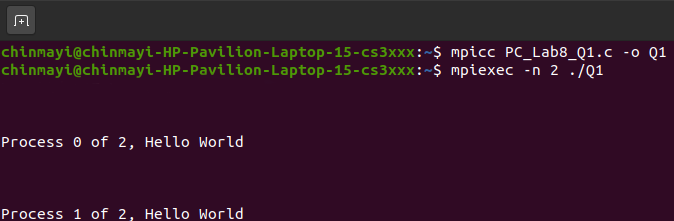
14th October 2020

**Faculty: Dr. Geetha V and Mrs. Thanmayee**

**Name:** Chinmayi C. Ramakrishna

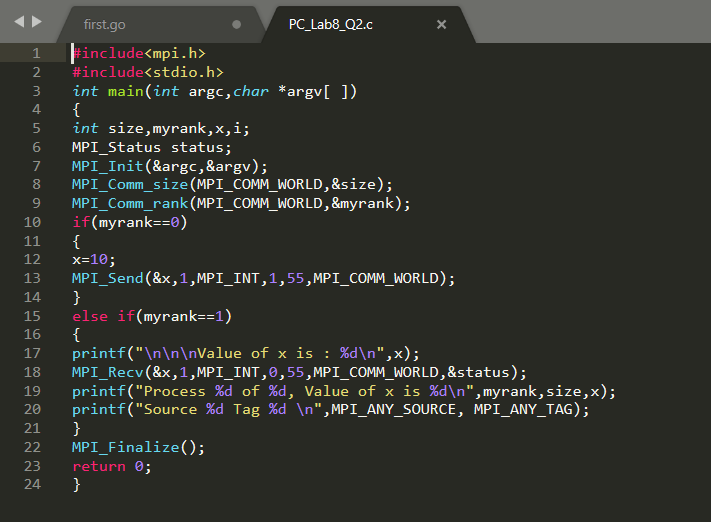
**Roll No.:** 181IT113

1. **MPI “Hello World” program:**

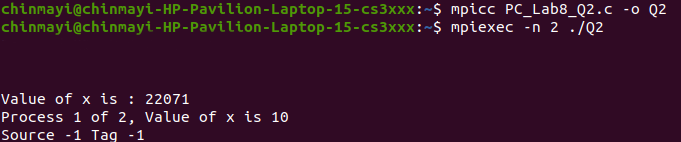
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1. **Demonstration of MPI\_Send() and MPI\_Recv(). Sending an Integer.**

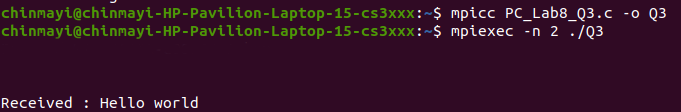
**Code:**



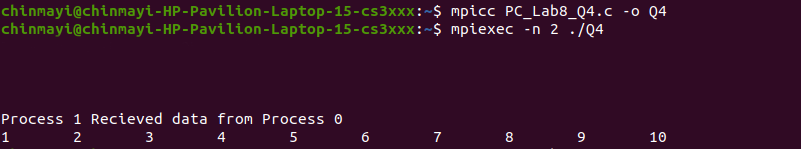
**Output:**

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1. **Demonstration of MPI\_Send() and MPI\_Recv(). Sending a string.**

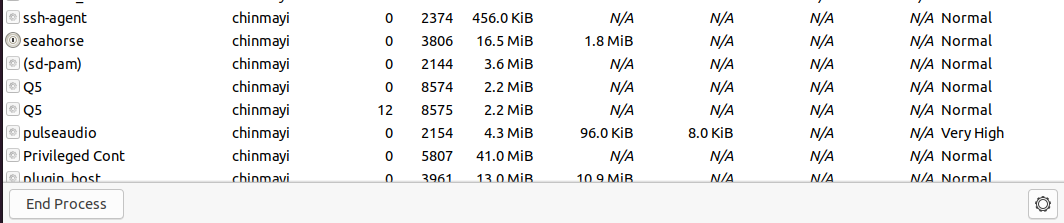
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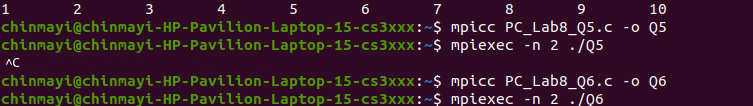
1. **Demonstration of MPI\_Send() and MPI\_Recv(). Sending elements of an array.**

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1. **Demonstration of Blocking Send and Receive with mismatched tags.**

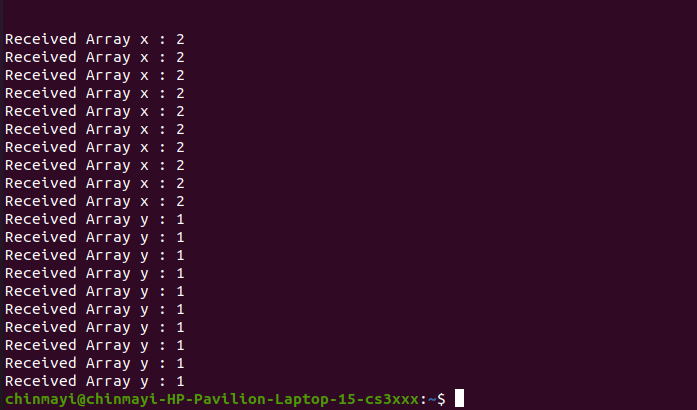
**Output:**

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The process ends when the code is exited.

1. **MPI\_Send() and MPI\_Recv() standard mode:**

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**a) Note down your observation on the content of x and y at Process 1.**

**b) Explain the importance of tag.**

When process 1 wants to send many different types of messages, it can use ids called tags so that the receiver can differentiate the messages.

**c) Write your analysis about Blocking Send and Receive. Whether it is advantageous?**

**d) What is the need for Non-blocking Send and Receive.**