**Class:** Final Year (Computer Science and Engineering)

**Year:** 2021-22 **Semester:** 1

**Course:** High Performance Computing Lab

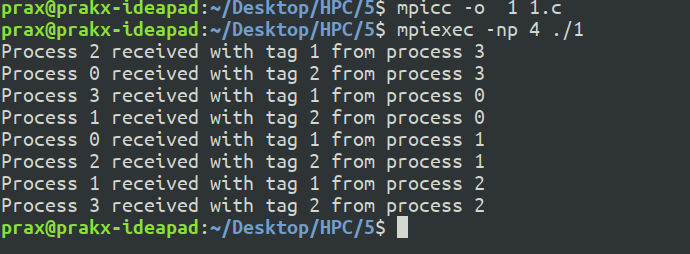
**Practical No. 5**

**Exam Seat No:2018BTECS00100**

1. Exam Seat Number – Prakash Singh

**Problem Statement 1:**Implement blocking and non-blocking MPI send & receive to demonstrate Nearest neighbour exchange of data in a ring topology.

**Screenshot #1:**

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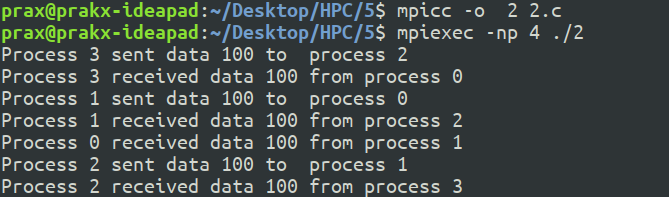
**Information #:**

Implemented blocking and non-blocking MPI send & receive to demonstrate Nearest neighbour exchange of data in a ring topology.

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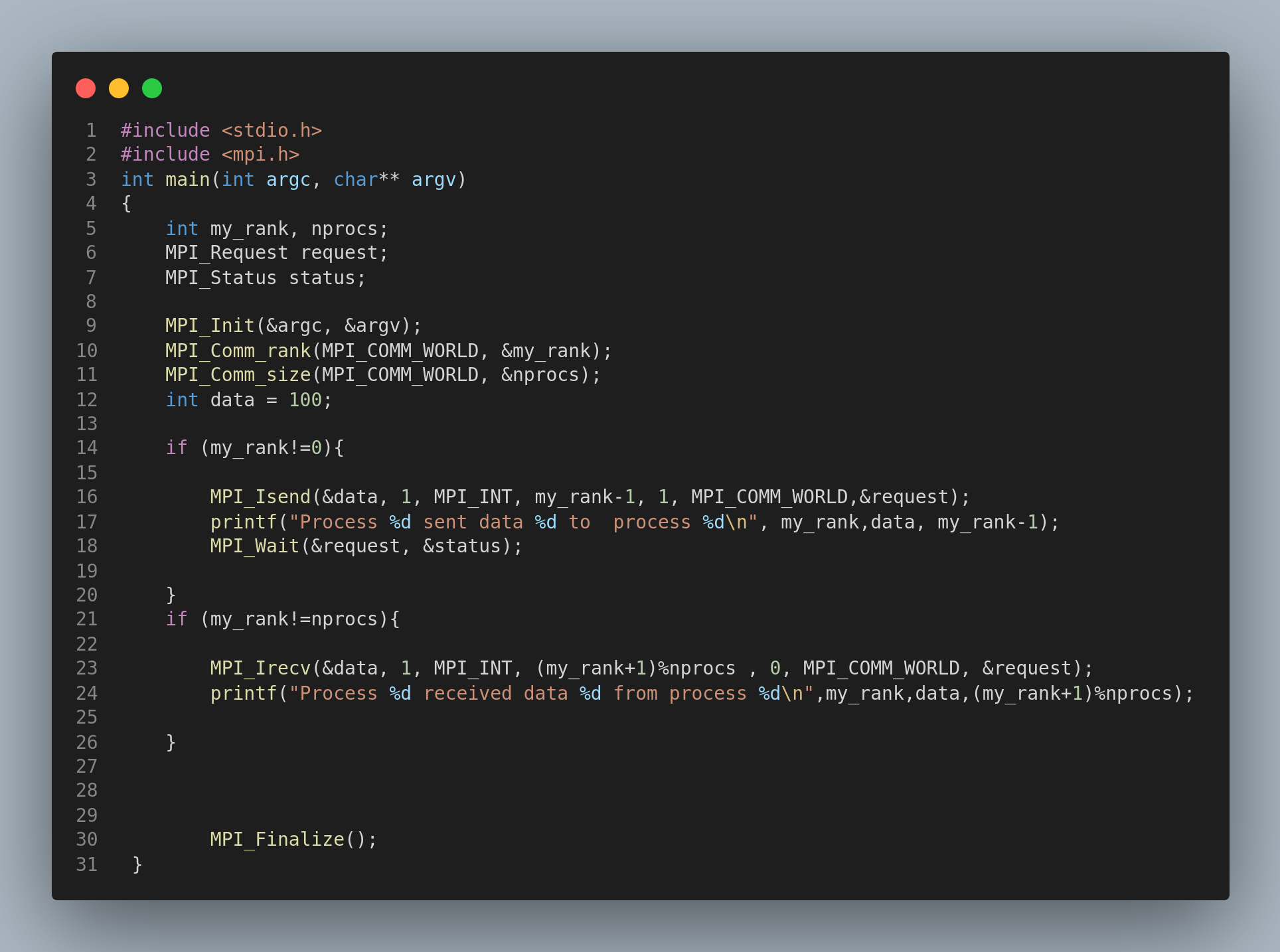
**Problem Statement 2:** Implement a MPI program to give an example of non-blocking send and receive between four processes.

**Screenshot #1:**



**Information :**

Implemented a MPI program to give an example of non-blocking send and receive between four processes.

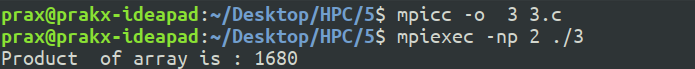
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**Problem Statement 3:**Write a MPI program to find the product of all the elements of an array A of size n using m

number of processes. The two sums then are added to get the final result.

**Screenshot 1:**

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**Information :**

A MPI program to find the product of all the elements of an array A of size 6 using 2 number of processes. The two sums then are added to get the final result by using MPI\_REDUCE.

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**Github Link: https://github.com/prakx1/HPC-LAB/tree/master/5**