Parallel and Distributed Computing

CSE4001

Fall Semester 2020-21

Lab Assignment 8

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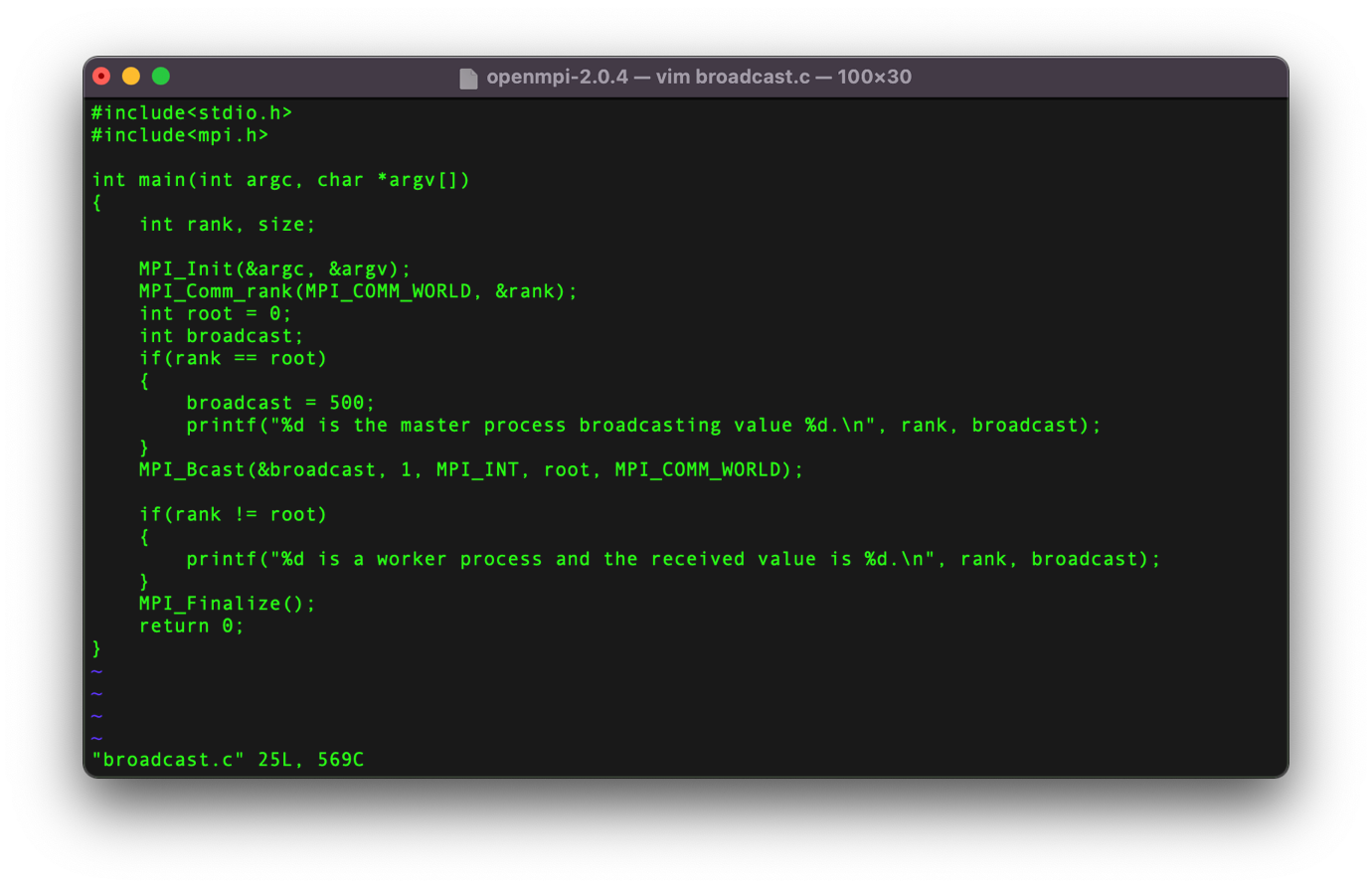
**18BCE0265**

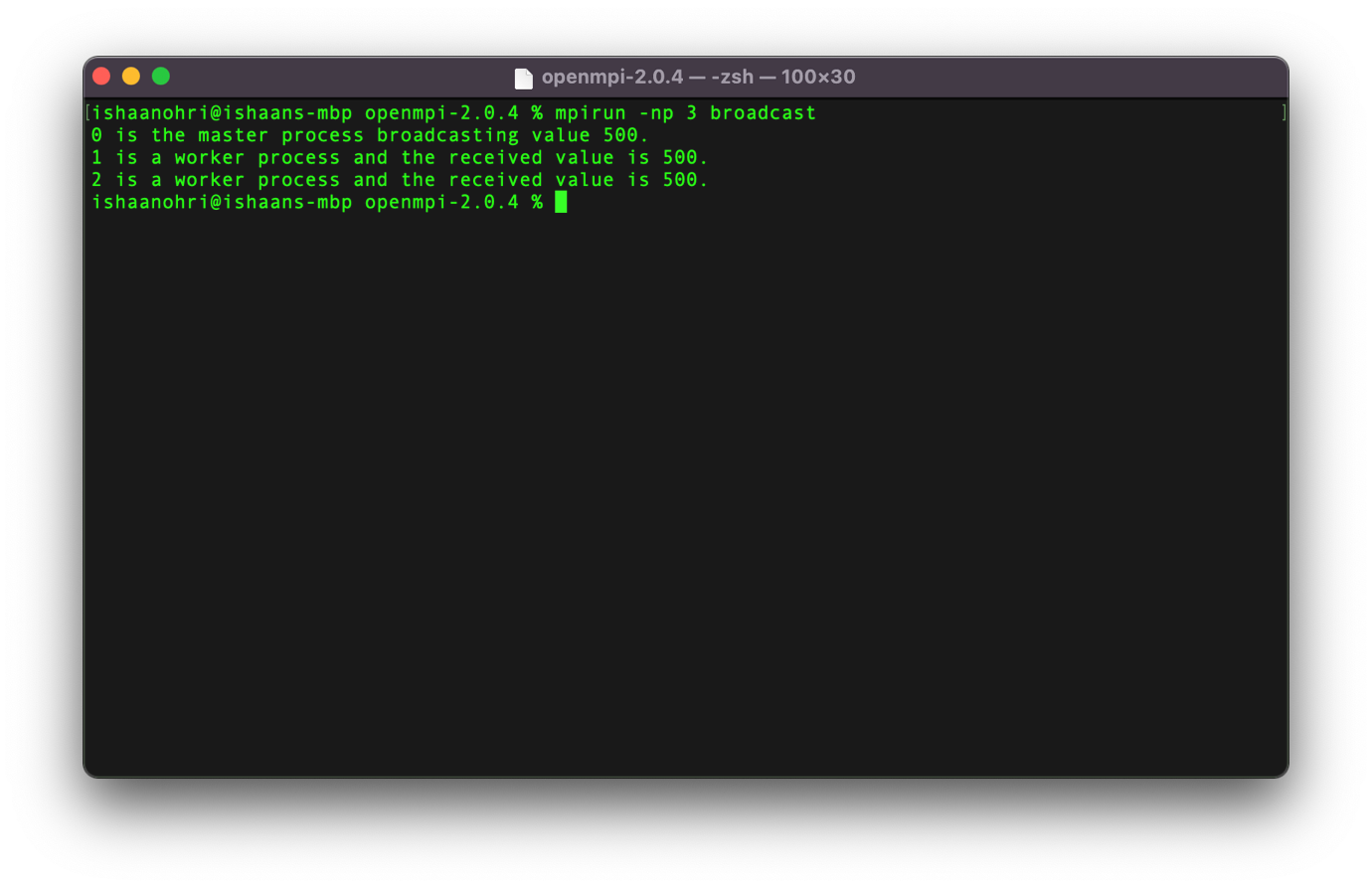
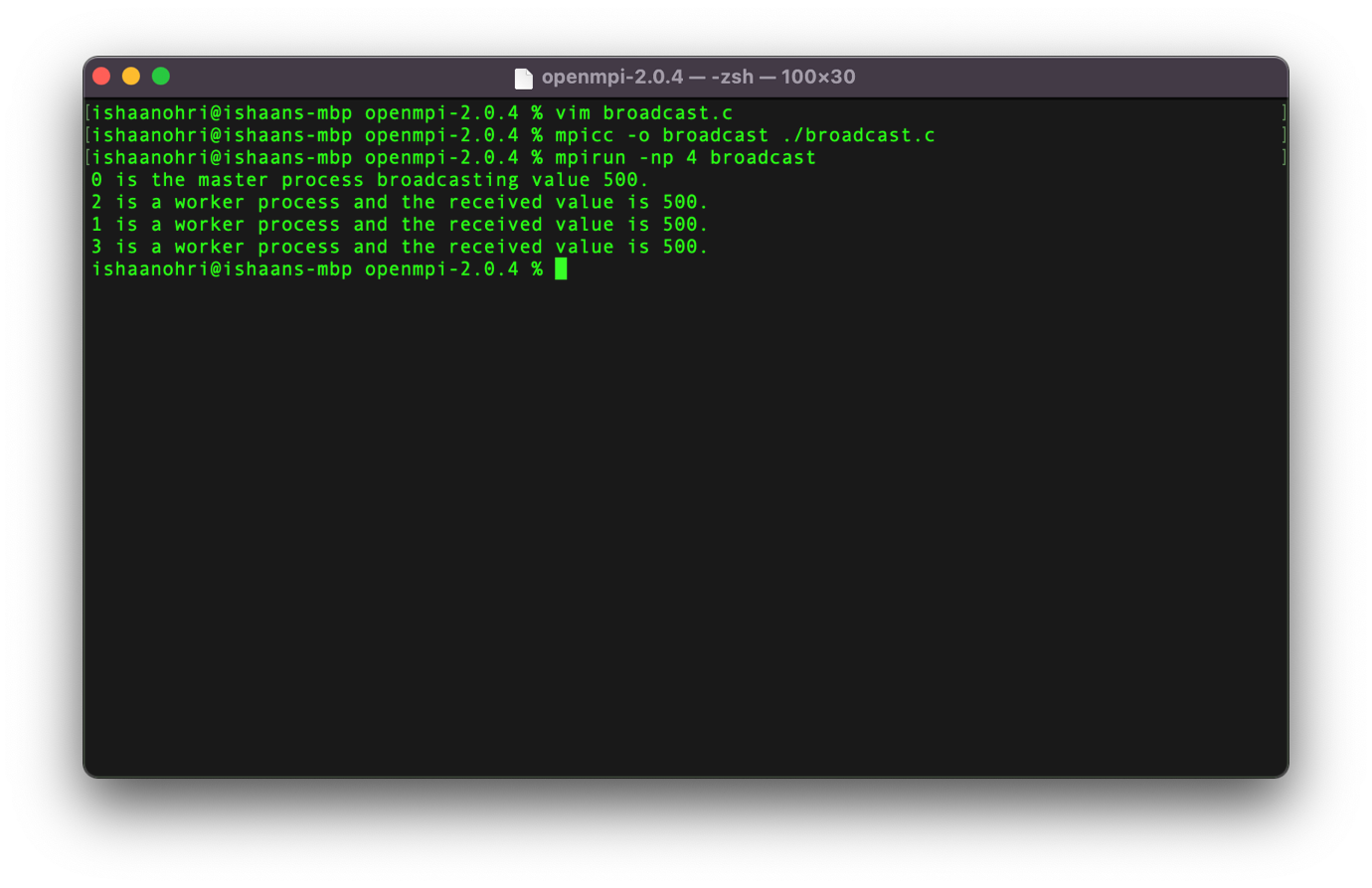
**Aim:**

Write a C program to demonstrate the use of MPI\_Bcast()

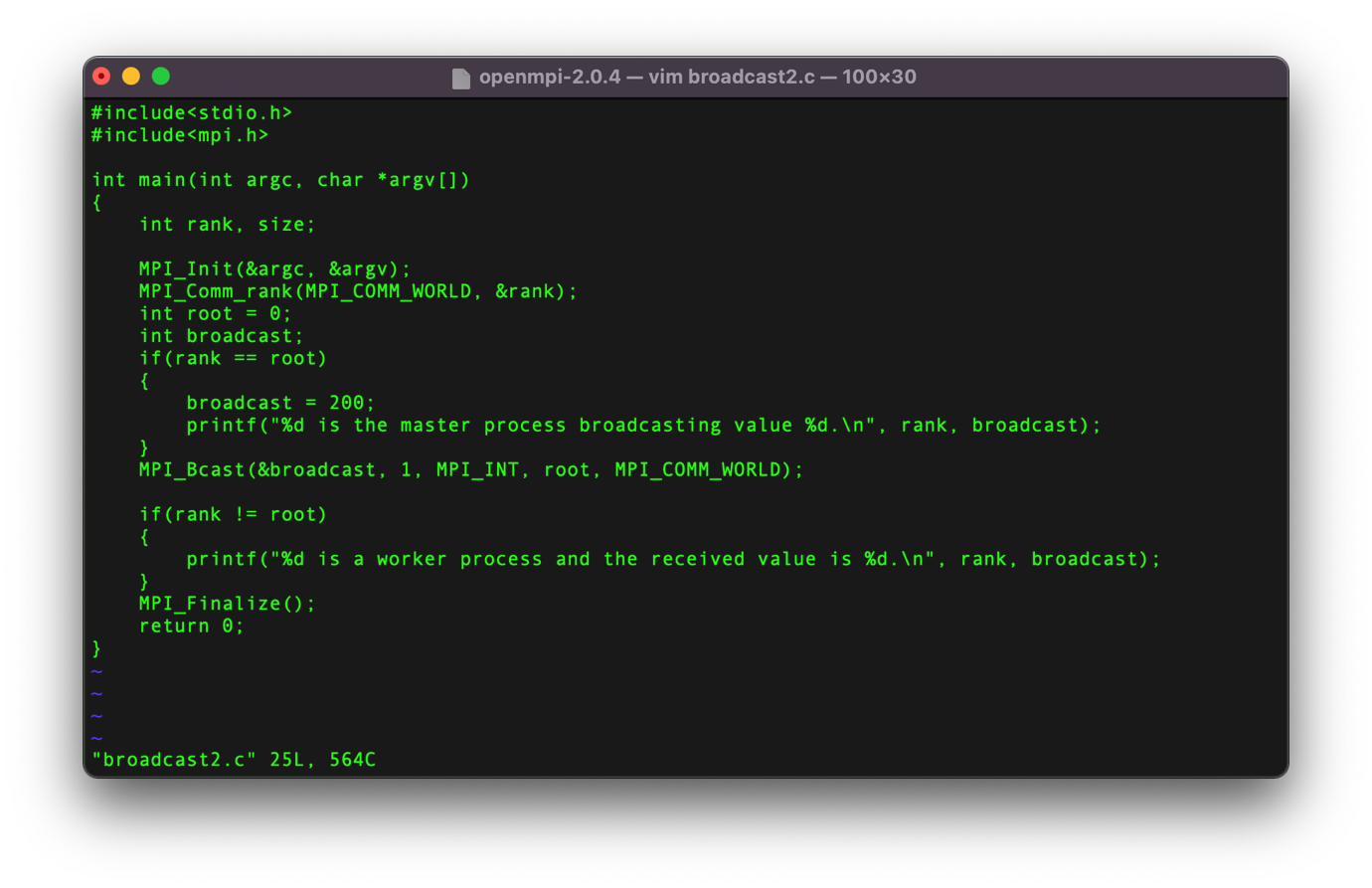
**Case 1: broadcast = 500**

**Source Code:**

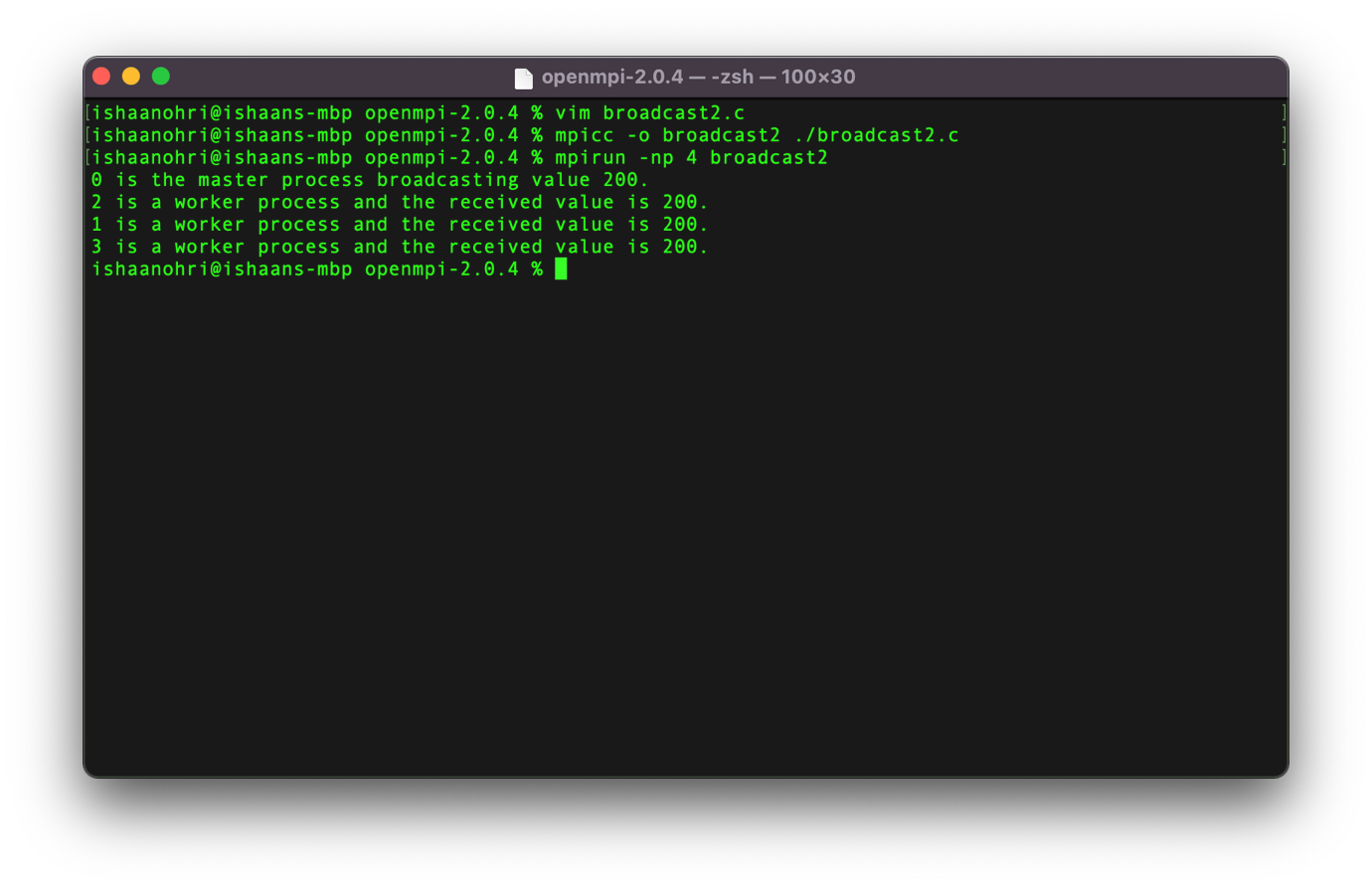
**Execution:**

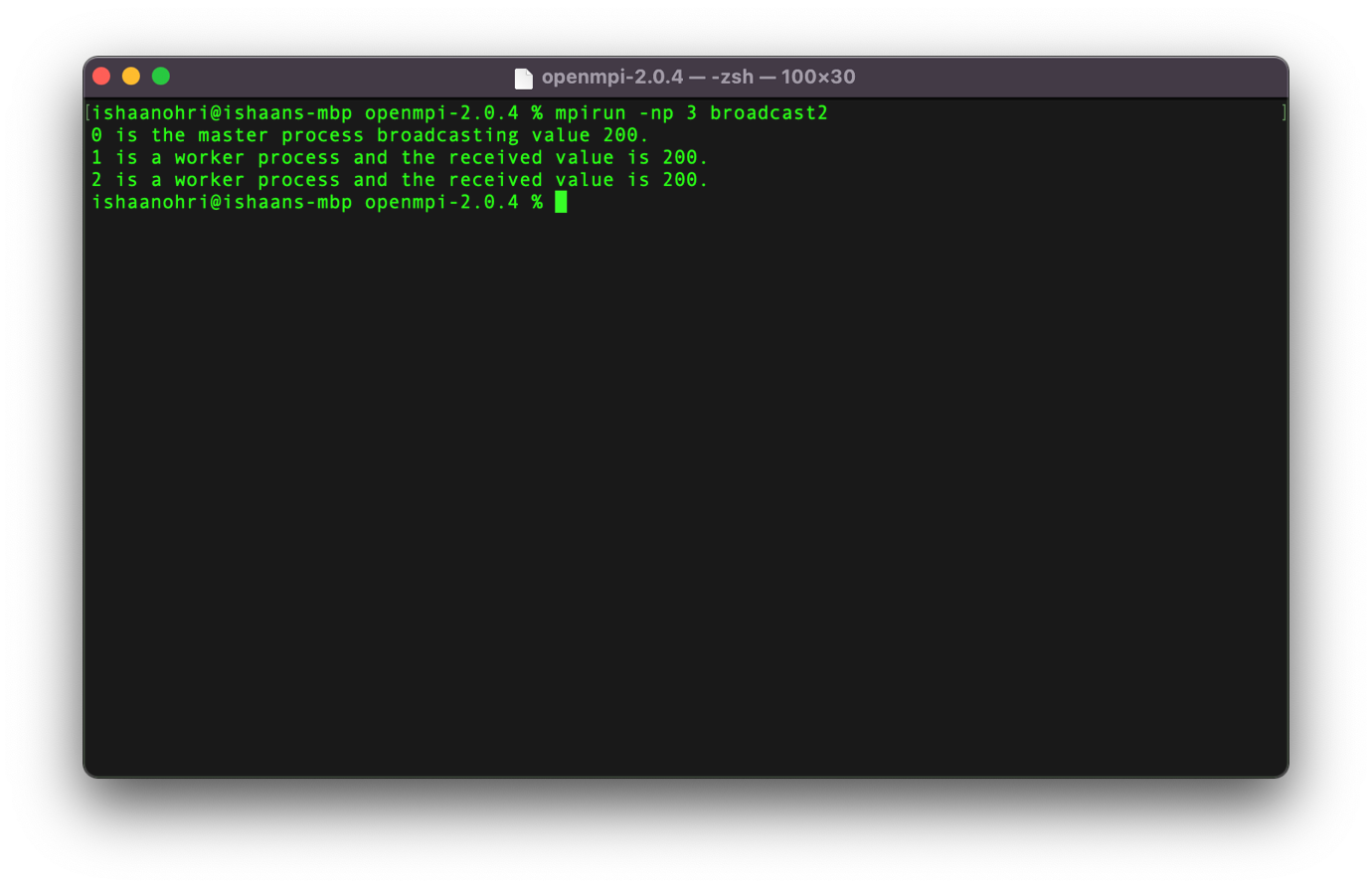
**Case 2: broadcast = 200**

**Source Code:**

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**Execution:**





**Remarks:**

The MPI\_Bcast() function helps a particular value to be broadcasted to all worker processes by the master process. It is helpful if a particular value needs to be transmitted to a lot of processes (Eg: 50), therefore saving us from writing 50 extra lines of code of MPI\_Send() and MPI\_Receive().

Over here we tried by sending a value of 500 in case 1 and 200 in case 2.

In the mpirun we specify the number of worker processes, over here it has been done for 4 and 3 worker processes.