Walchand College of Engineering, Sangli Department of Computer Science and Engineering

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

**Course:** High Performance Computing Lab

#### Practical No. 4

Exam Seat No: 2018BTECS00005

Name: Rahul Sanjay Naravadkar

**Problem Statement 1:** Implement a simple hello world program by setting number of processes equal to 6

# Screenshot #:

```
rahul@ubuntu:-/mpi/Assignment 4$ mpicxx -o Question1 Question1.cpp
rahul@ubuntu:-/mpi/Assignment 4$ mpicxx -o Question1
Hello world, from process #Hello world, from process #3
0
Hello world, from process #2
Hello world, from process #4
Hello world, from process #1
rahul@ubuntu:-/mpi/Assignment 4$ ~
```

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# **Information #:**

**Compile: -** mpicxx -o Question1 Question1.cpp

**Run** - mpirun -np 5 ./Question1

**Problem Statement2-** Implement a program to display rank and communicator group of 8 processes.

# **Screenshot:**

```
rahul@ubuntu:-/mpi/Assignment 4$ mpirun -np 8 ./Question2
Hello from processor Hello from processor ubuntu rank2 out of 8 processes
Hello from processor ubuntu rank8 out of 8 processes
ubuntu rank5 out of 8 processes
Hello from processor ubuntu rank3 out of 8 processes
Hello from processor ubuntu rank4 out of 8 processes
Hello from processor ubuntu rank1 out of 8 processes
Hello from processor ubuntu rank6 out of 8 processes
Hello from processor ubuntu rank7 out of 8 processes
Hello from processor ubuntu rank7 out of 8 processes
Hello from processor ubuntu rank7 out of 8 processes
rahul@ubuntu:-/mpi/Assignment 4$
```

#### **Information #:**

**Compile -** mpicxx -o Question2 Question2.cpp

Run - mpirun -np 8 ./Question2

#### **Github Link**