MPI-SETUP-IN-UBUNTU

Step1 : Open the terminal and Update the package repository by using the below command.
sudo apt update

Step2 : Download the MPI Library by using the command in the terminal.
sudo apt install mpich

Step3 : Now write the MPI Program with C extension(For ex: HelloWorld.c).

```
#include<stdio.h>
#include<stdlib.h>
#include<mpi.h>
int main(int argc, char *argv[]){
int size;
int myRank;
MPI_Init(&argc, &argv);
MPI_Comm_rank(MPI_COMM_WORLD, &myRank);
MPI_Comm_size(MPI_COMM_WORLD, &size);

printf("The processess and size are = [ %d ] , [ %d ]  \n", myRank, size);

MPI_Finalize();
return 0;

}
```

Step4 : Now run the above program by using the command below.
mpicc HelloWorld.c -o HelloWorld

Step5 : After compiling then execute the program by using the command .
mpirun -np 4 ./HelloWorld

Step6 : You will get the following output .