

# OPERATING SYSTEMS LAB

## Ex:2 Inter Process Communication (IPC) using Pipes

Implement the following programs (in Linux) using the C programming Language:

- a. Show a successful unidirectional IPC between a parent and child process using pipes.
- b. Show a successful bidirectional IPC between the parent and child process using pipes.
- c. Assume an array of size n. The objective is to find the total sum of all elements of the array. create a child process and split the array into two between parent and the child. Both the parent and the child calculate the partial sum of the array. Finally sum up the partial sums and find the total sum of the array. The parent and child should use pipes for IPC.