

Readme

Steps to run:

1. Run the following command

```
$ source setup.sh
```

This builds the necessary object files to execute the program.

2. Run the following command.

```
$ ./pipe
```

System Calls used:

1. **Fork():**

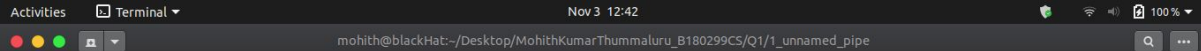
This is used to create a child process.

- **<0** fail to create child (new) process
- **=0** for child process
- **>0** i.e process ID of the child process to the parent process. When **>0** parent process will execute.

2. **Pipe():**

This is used for passing information from one process to another.

Output:



```
Enter 1 element:20
sending 20 to p2
reading from p1 20 done
sending to p3 20 done
reading from p2 20.000000 element
Enter 2 element:24
sending 24 to p2
reading from p1 24 done
sending to p3 24 done
reading from p2 24.000000 element
Enter 3 element:18
sending 18 to p2
reading from p1 18 done
sending to p3 18 done
reading from p2 18.000000 element
Enter 4 element:29
sending 29 to p2
reading from p1 29 done
sending to p3 29 done
reading from p2 29.000000 element
Enter 5 element:35
sending 35 to p2
reading from p1 35 done
sending to p3 35 done
reading from p2 35.000000 element
sending to p3 25.200001 avg
reading from p2 25.200001 avg
sending to p3 6.177378 sd
reading from p2 6.177378 sd
sending 22.000000 to p1
Final elements are 22.000000
sending 26.000000 to p1
Final elements are 26.000000
sending 20.500000 to p1
Final elements are 20.500000
sending 27.500000 to p1
Final elements are 27.500000
sending 32.000000 to p1
Final elements are 32.000000
```