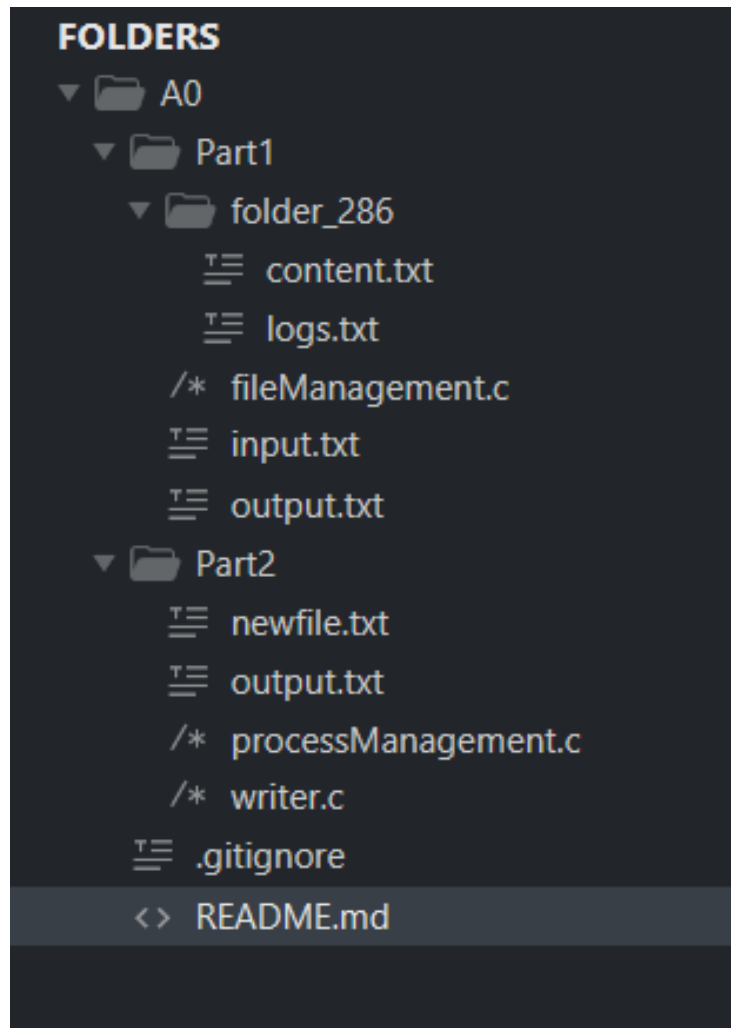


Sample Output Assignment #0

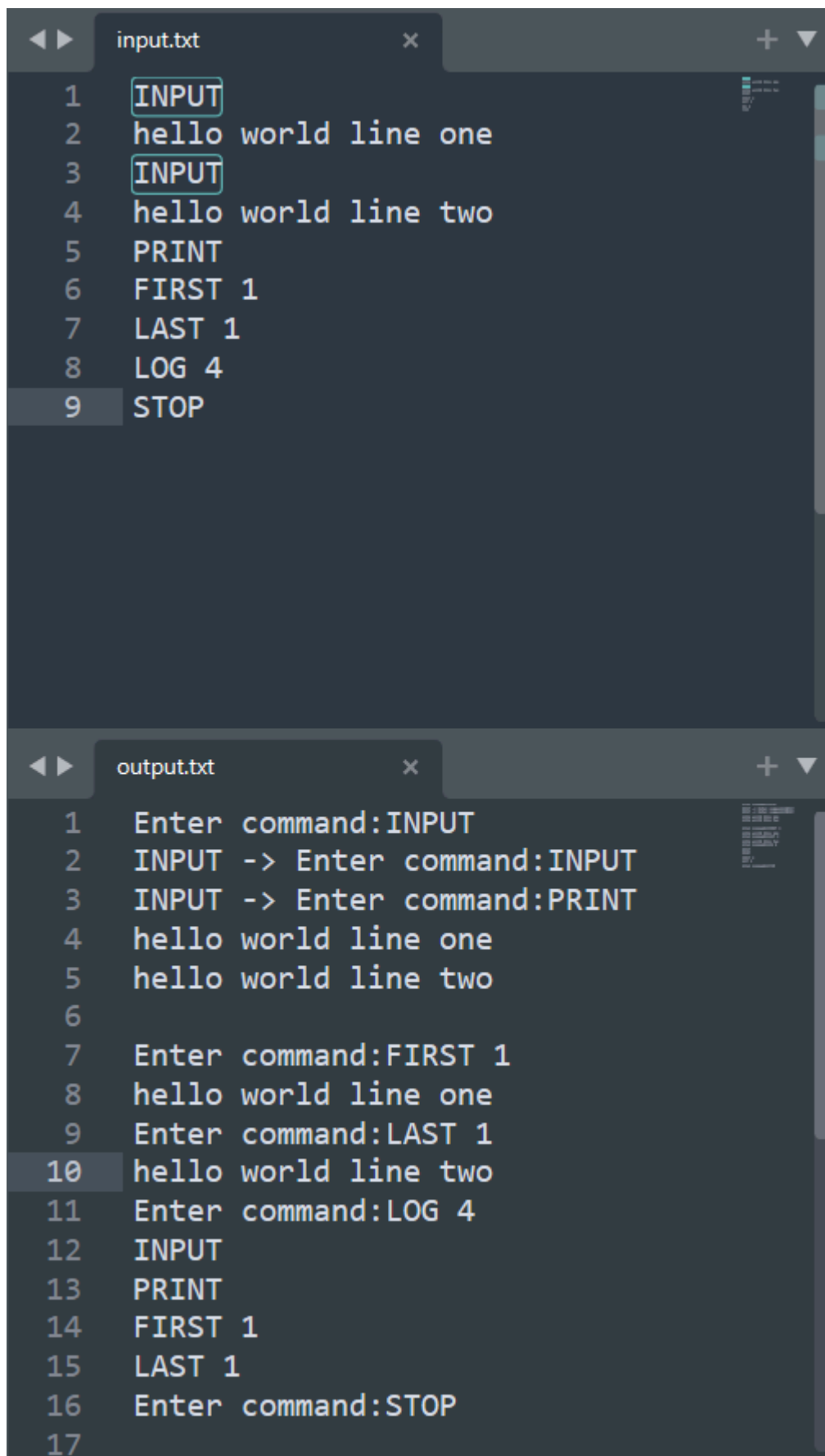
Course: Operating Systems and Networks

- Pranav Swarup Kumar, 2025121011



P. T. O

Part 1



```
input.txt
1 INPUT
2 hello world line one
3 INPUT
4 hello world line two
5 PRINT
6 FIRST 1
7 LAST 1
8 LOG 4
9 STOP

output.txt
1 Enter command:INPUT
2 INPUT -> Enter command:INPUT
3 INPUT -> Enter command:PRINT
4 hello world line one
5 hello world line two
6
7 Enter command:FIRST 1
8 hello world line one
9 Enter command:LAST 1
10 hello world line two
11 Enter command:LOG 4
12 INPUT
13 PRINT
14 FIRST 1
15 LAST 1
16 Enter command:STOP
17
```

Part 2

```
pranav@Laptop-Asus-F15:/mnt/e/A - IIITH/Assignments/OSN/A0/Part 2$ ./orphan
Parent (PID: 563) exiting...
pranav@Laptop-Asus-F15:/mnt/e/A - IIITH/Assignments/OSN/A0/Part 2$ Child (PID: 564), new parent PID: 266
^C
pranav@Laptop-Asus-F15:/mnt/e/A - IIITH/Assignments/OSN/A0/Part 2$ ./processManagement
-----TASK 1 (Parent)-----
-----TASK 1 (Child)-----
Parent's PID = 565, Updated x value = 20
Child's PID = 566, Updated x value = 35
-----TASK 2 (Parent)-----
Waiting for child to finish
-----TASK 2 (Child)-----
Writing to newfile.txt
-----TASK 3 (Parent)-----
Parent with PID 565, is exiting.
pranav@Laptop-Asus-F15:/mnt/e/A - IIITH/Assignments/OSN/A0/Part 2$ clear-----TASK 3 (Child)-----
Child PID 568, Updated Parent PID: 266
^C
pranav@Laptop-Asus-F15:/mnt/e/A - IIITH/Assignments/OSN/A0/Part 2$ cat newfile.txt
Parent PID: 565
pranav@Laptop-Asus-F15:/mnt/e/A - IIITH/Assignments/OSN/A0/Part 2$
```

Even with different parent process IDs, the orphaned child processes are always adopted by my WSL's init/systemd's process with a PID of 266.