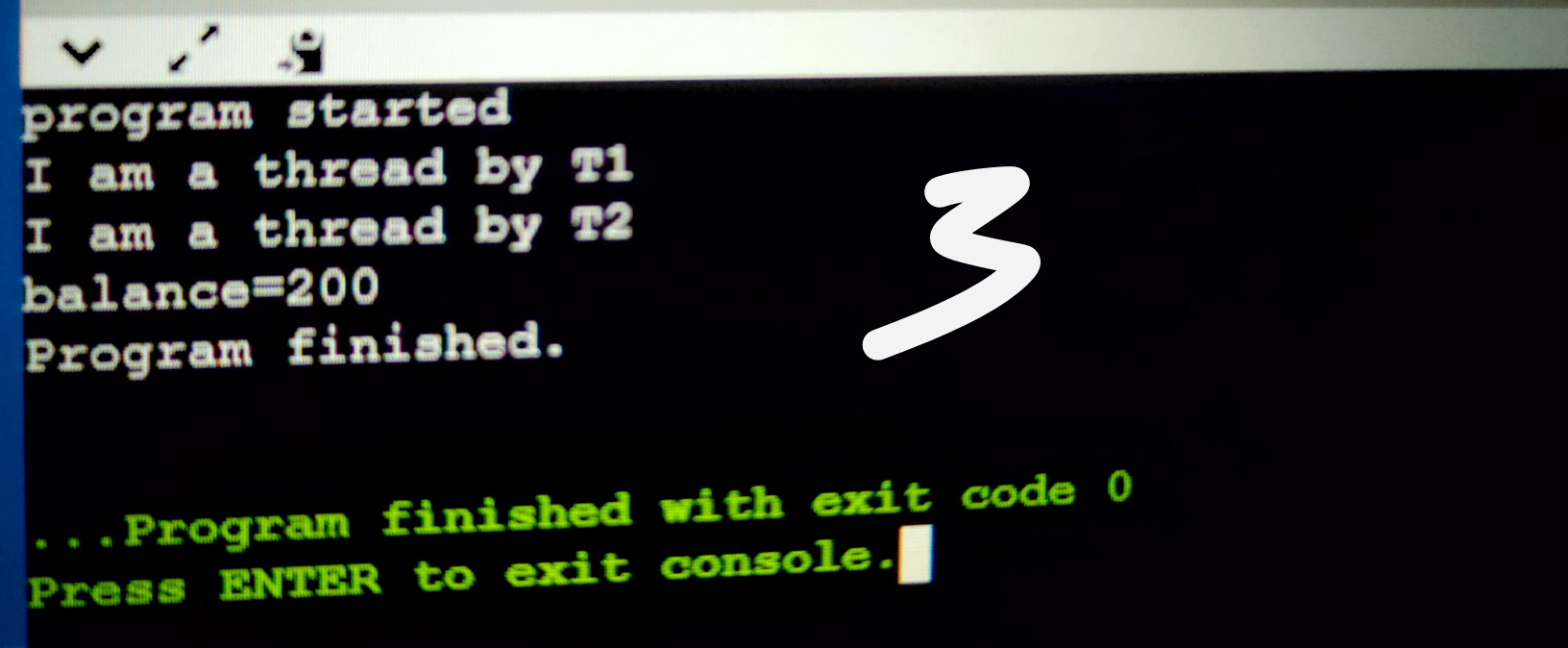
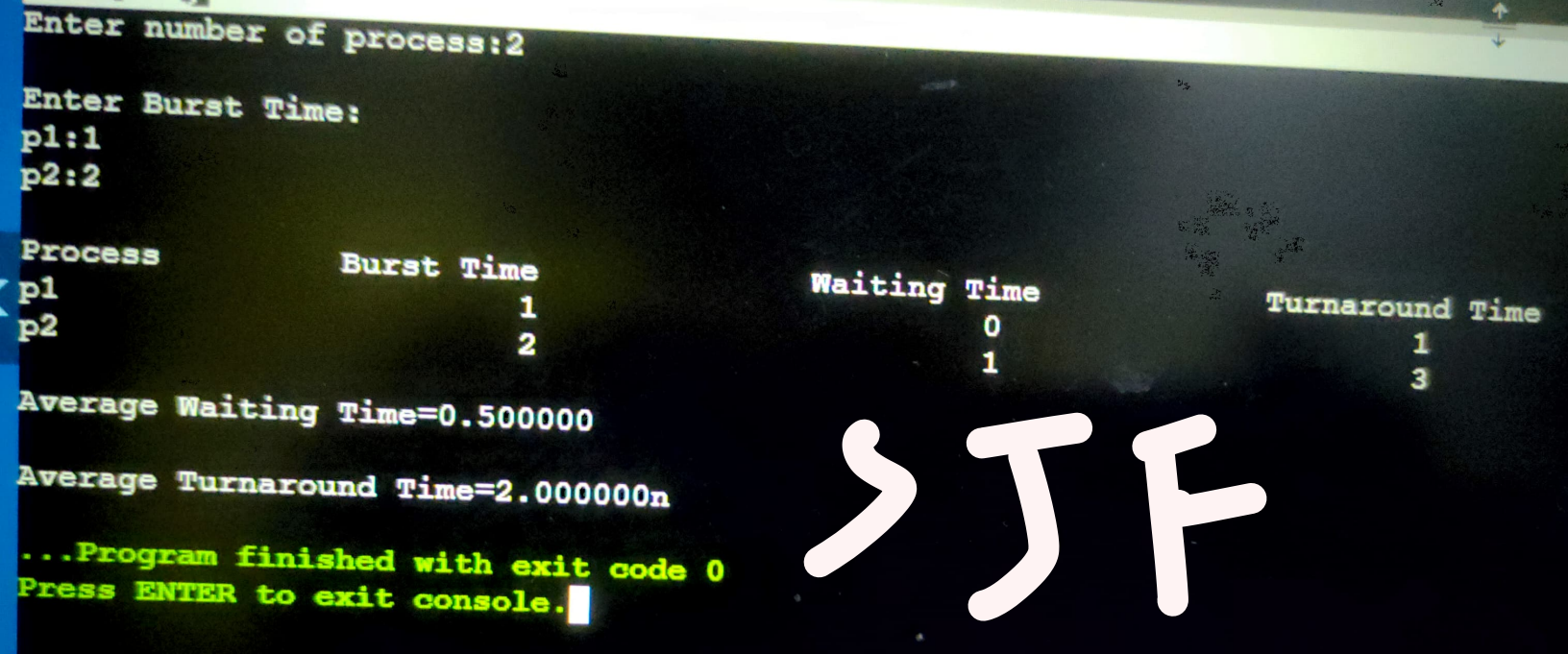

program started
I am a thread by T1
I am a thread by T2
balance=200
Program finished.
3
...Program finished with exit code 0
Press ENTER to exit console.

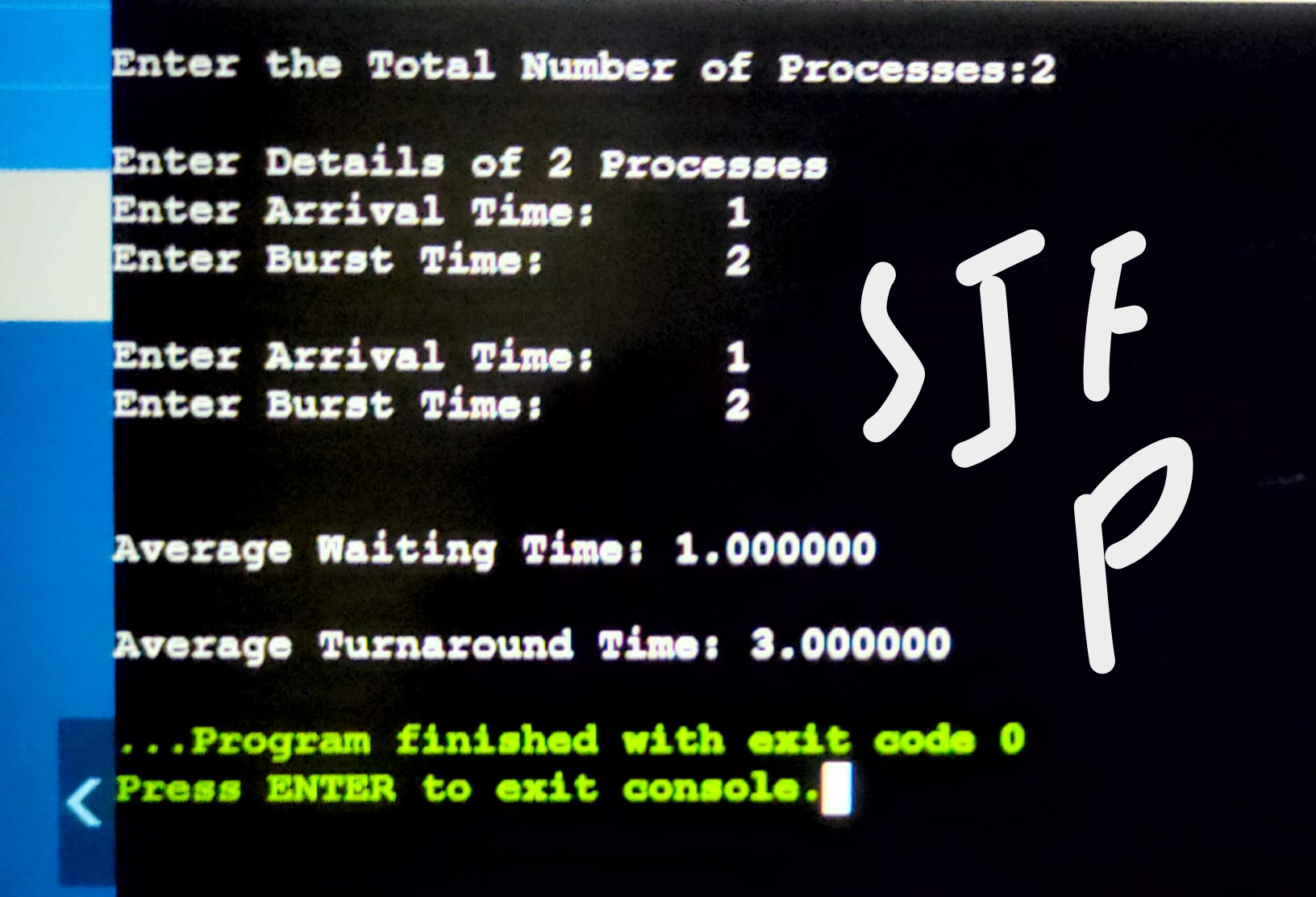
```
29  printf("\nP[%d]\t\t%d\t\t\t%d\t\t\t%d",i+1,bt[i],wt[i],tat[i]);
30  }
31  avwt/=i;
32  avtat/=i;
33
34  printf("\n\nAverage Waiting Time:%d",avwt);
35  printf("\n\nAverage Turnaround Time:%d",avtat);
36  return 0;
37  }
38
39
```

```
Enter total number of processes(maximum 20):2

Enter Process Burst TimenP[1]:1
P[2]:2

Process         Burst Timet             Waiting Time            Turnaround Time
P[1]            1                       0                       1
P[2]            2                       1                       3

Average Waiting Time:0

Average Turnaround Time:2

...Program finished with exit code 0
Press ENTER to exit console.
```

FCFS

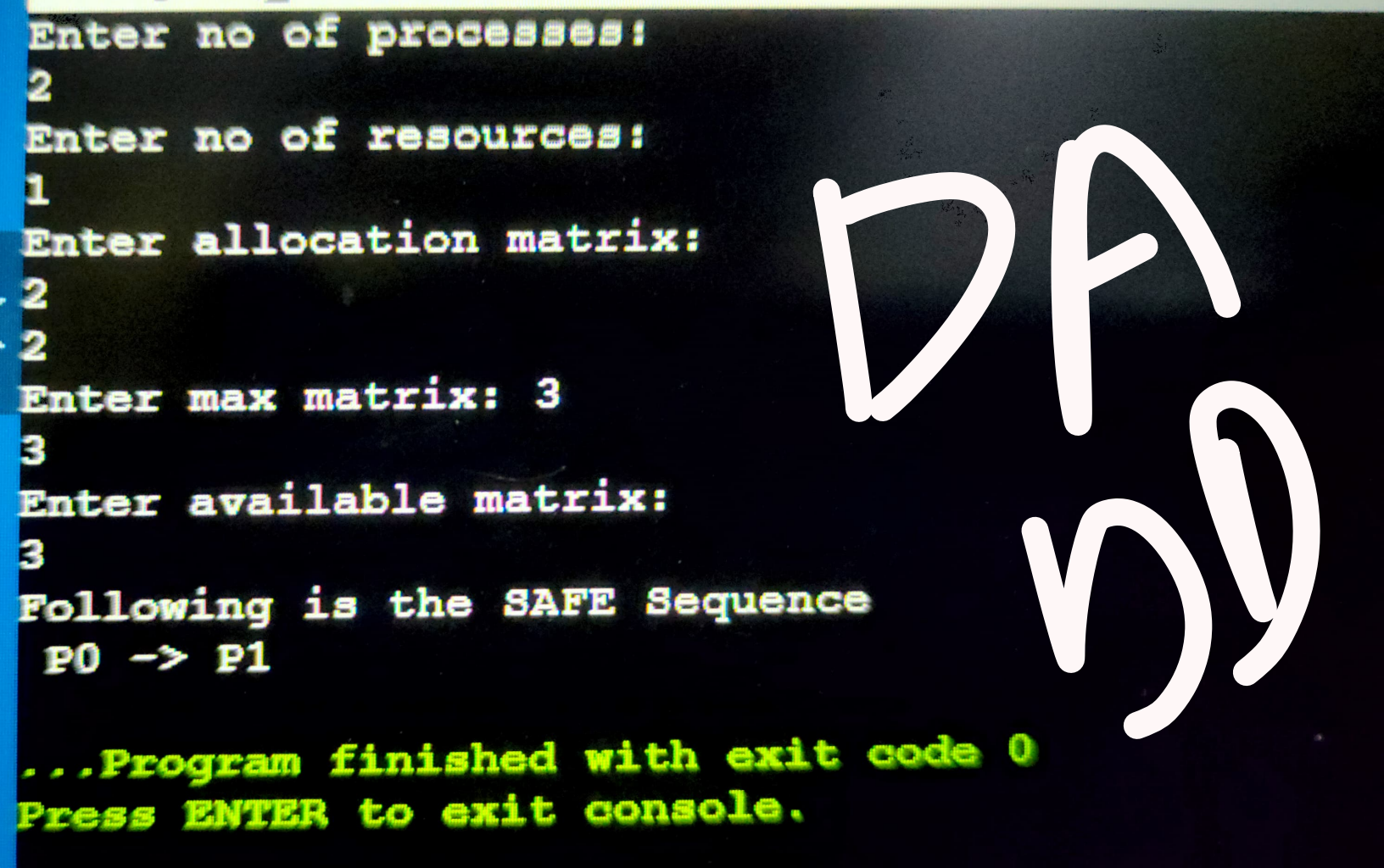
```
Enter No of Processes:
2
Enter burst time of process:
1
2
Enter quantam time:
2

process          burst time          turnaround time          waiting time

1                     1                     1                     0

2                     2                     3                     1
Average waiting time=0.500000
Average turnaround time=2.000000


...Program finished with exit code 0
Press ENTER to exit console.
```

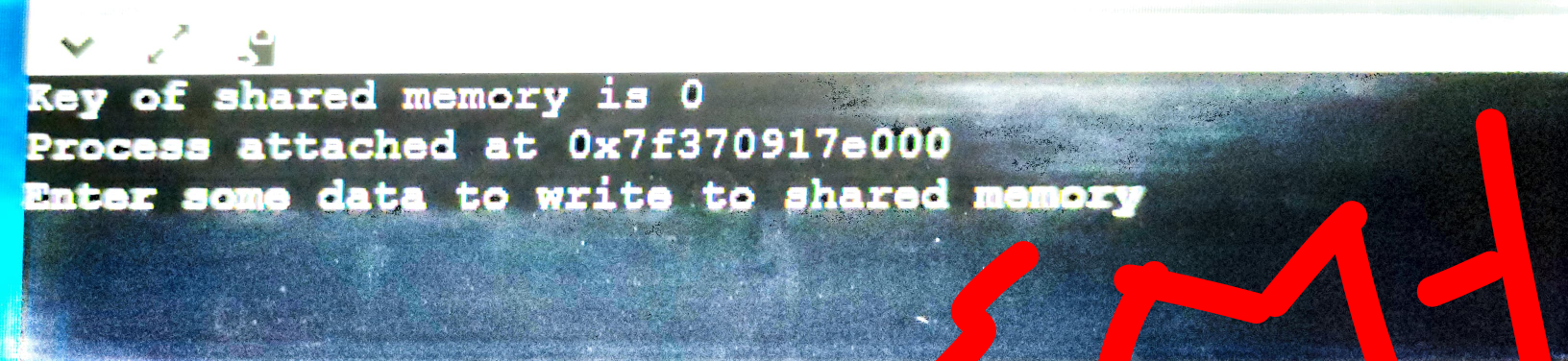

Enter number of process:2
Enter Burst Time:
p1:1
p2:2
Process
Burst Time
Waiting Time
Turnaround Time
p1
1
0
1
p2
2
1
3
Average Waiting Time=0.500000
Average Turnaround Time=2.000000n
...Program finished with exit code 0
Press ENTER to exit console.
SJF

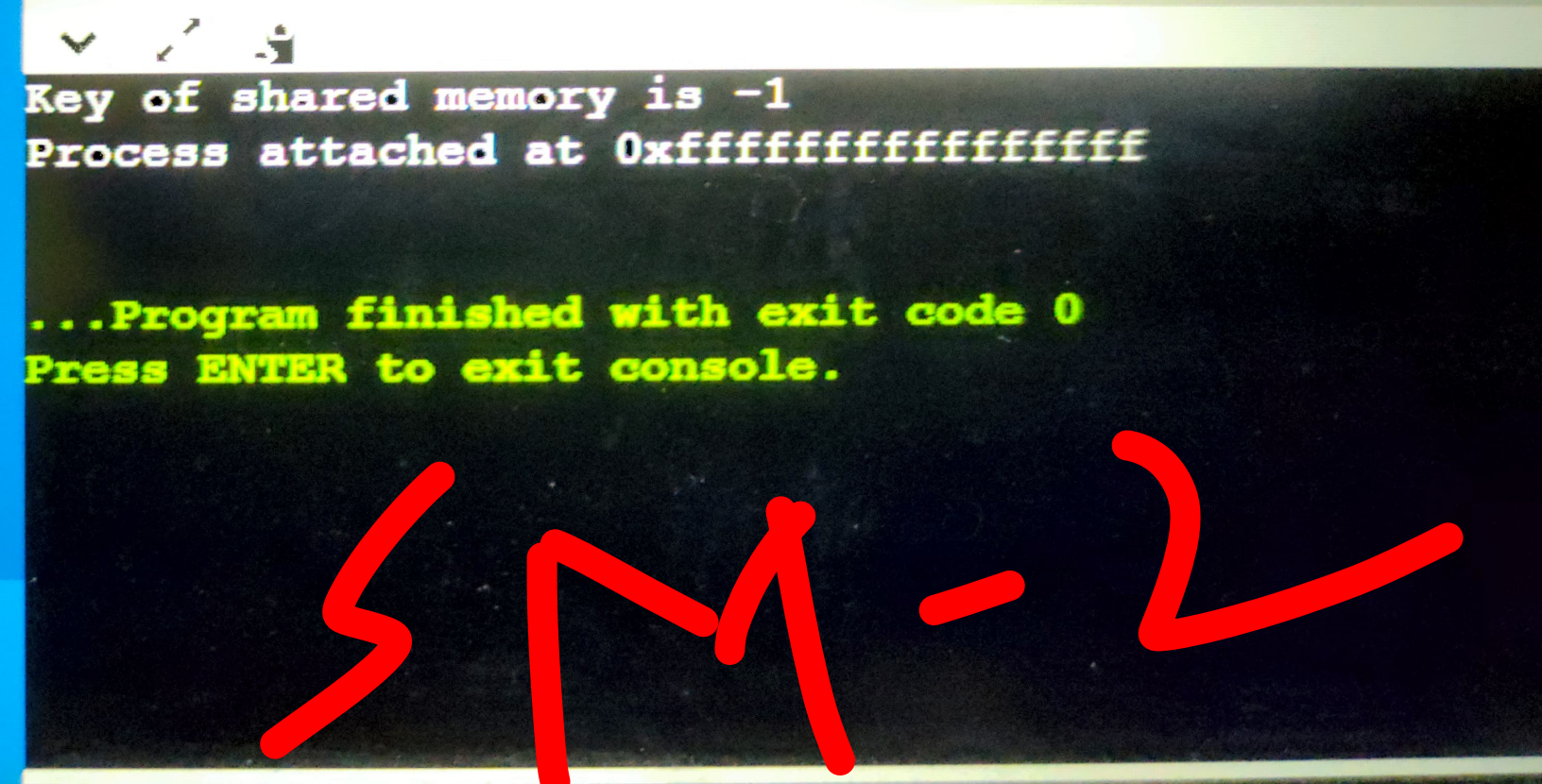

Enter the Total Number of Processes:2
Enter Details of 2 Processes
Enter Arrival Time: 1
Enter Burst Time: 2
Enter Arrival Time: 1
Enter Burst Time: 2
Average Waiting Time: 1.000000
Average Turnaround Time: 3.000000
...Program finished with exit code 0
Press ENTER to exit console.
SJF
P

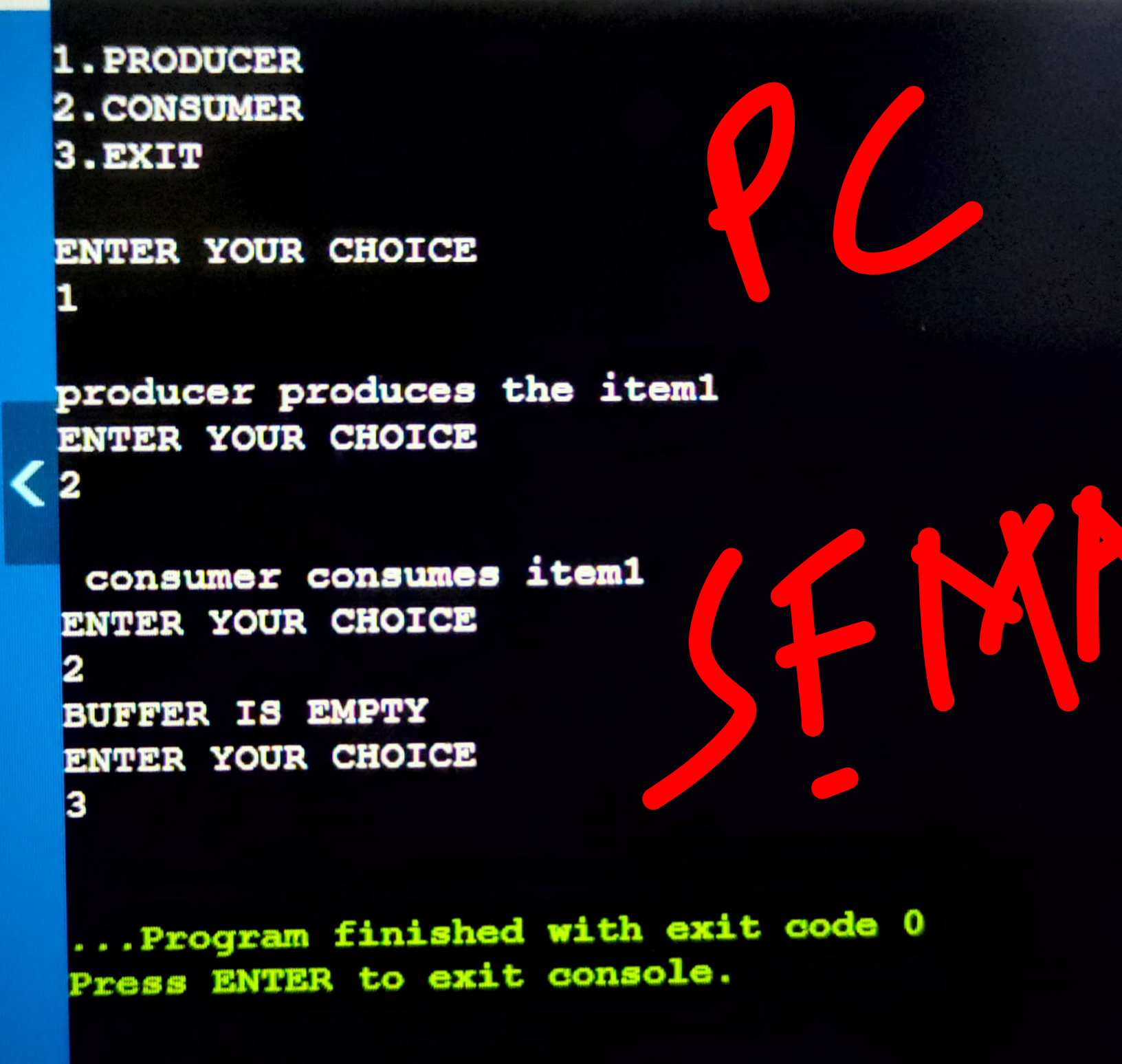
```
In Parent: Writing to pipe 1 - Message is Hi
In Child: Reading from pipe 1 - Message is Hi
In Child: Writing to pipe 2 - Message is Hello
In Parent: Reading from pipe 2 - Message is Hello


...Program finished with exit code 0
Press ENTER to exit console.
```

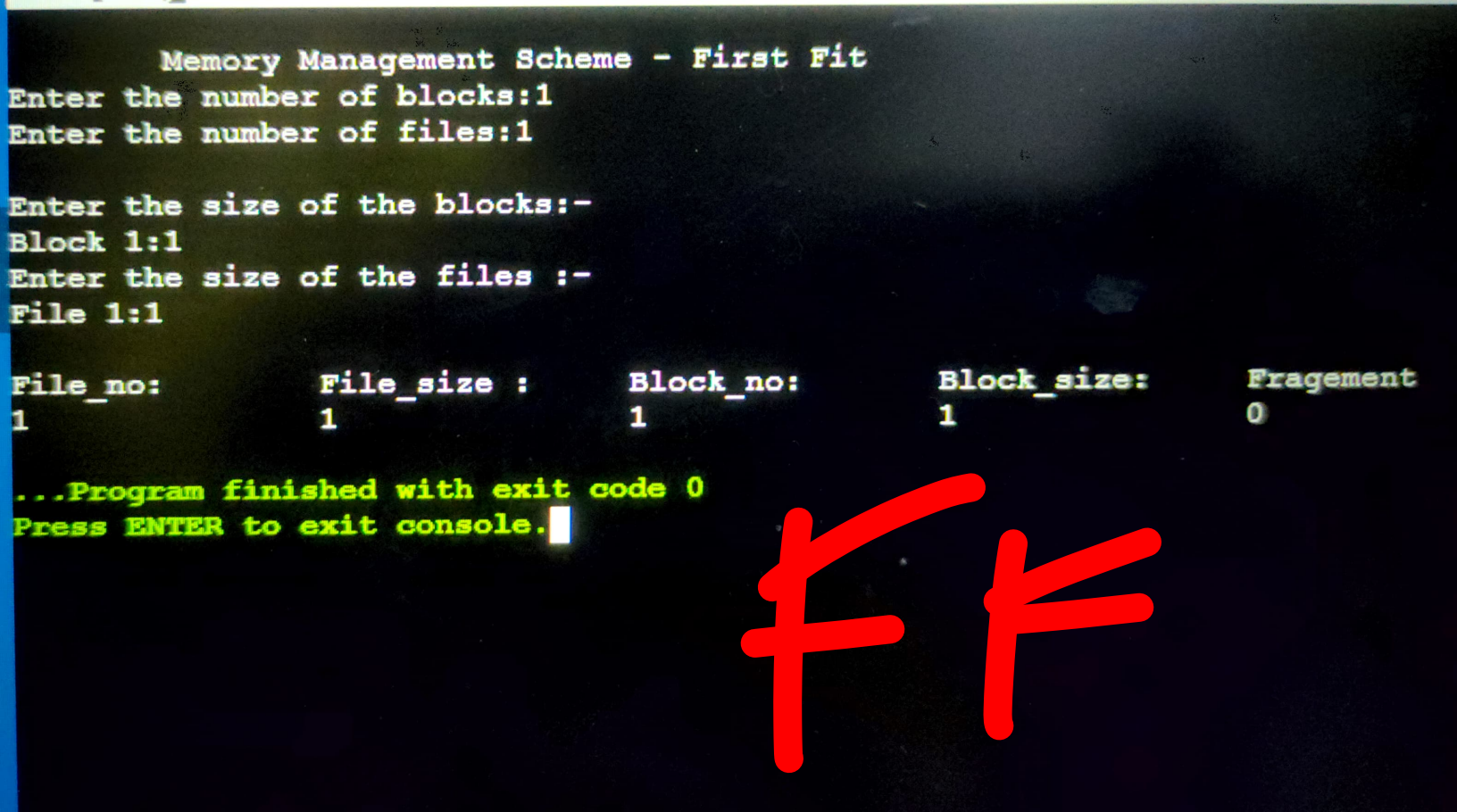
IPC

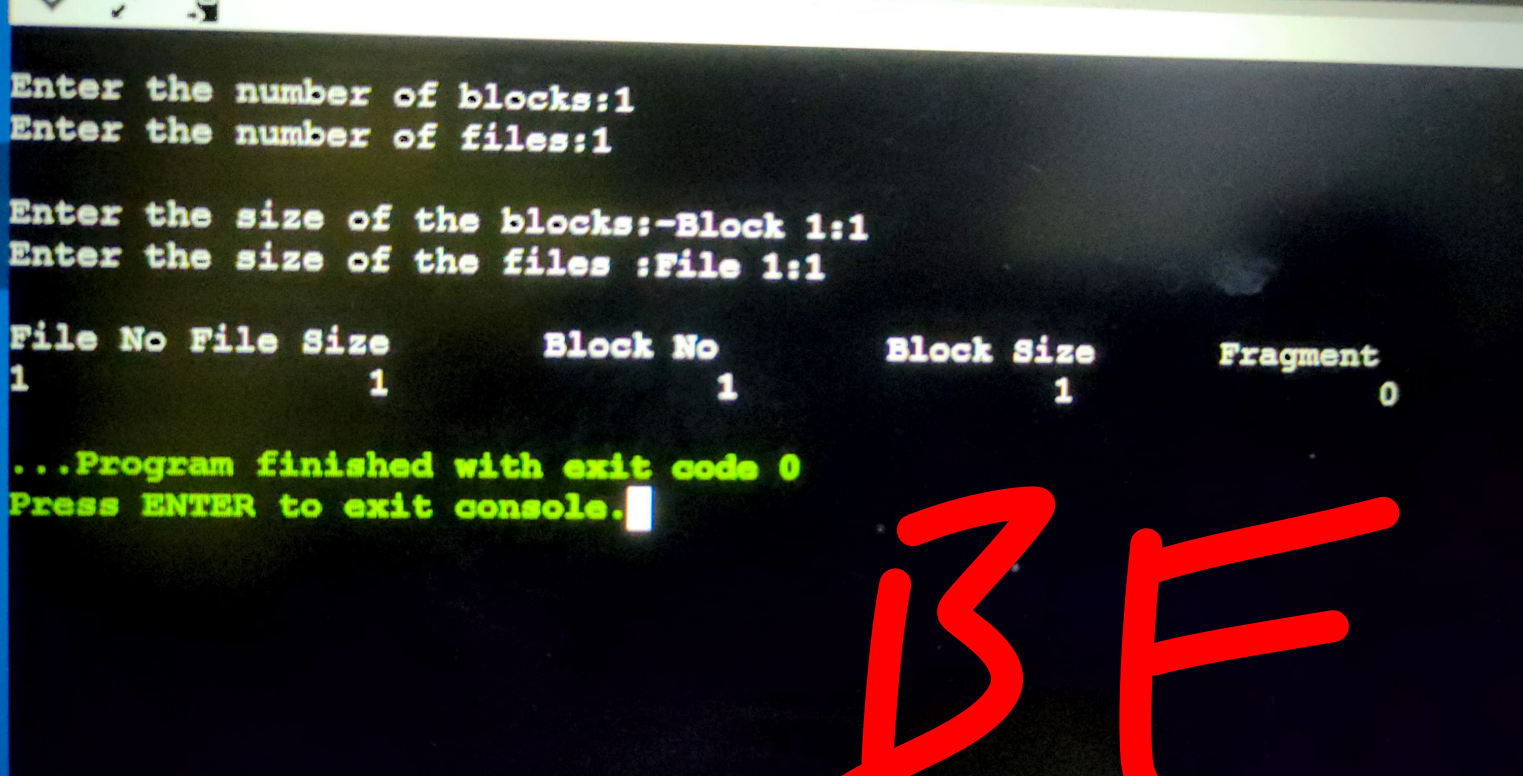

Enter no of processes:
2
Enter no of resources:
1
Enter allocation matrix:
2
2
Enter max matrix: 3
3
Enter available matrix:
3
Following is the SAFE Sequence
P0 -> P1
...Program finished with exit code 0
Press ENTER to exit console.
DA
ND

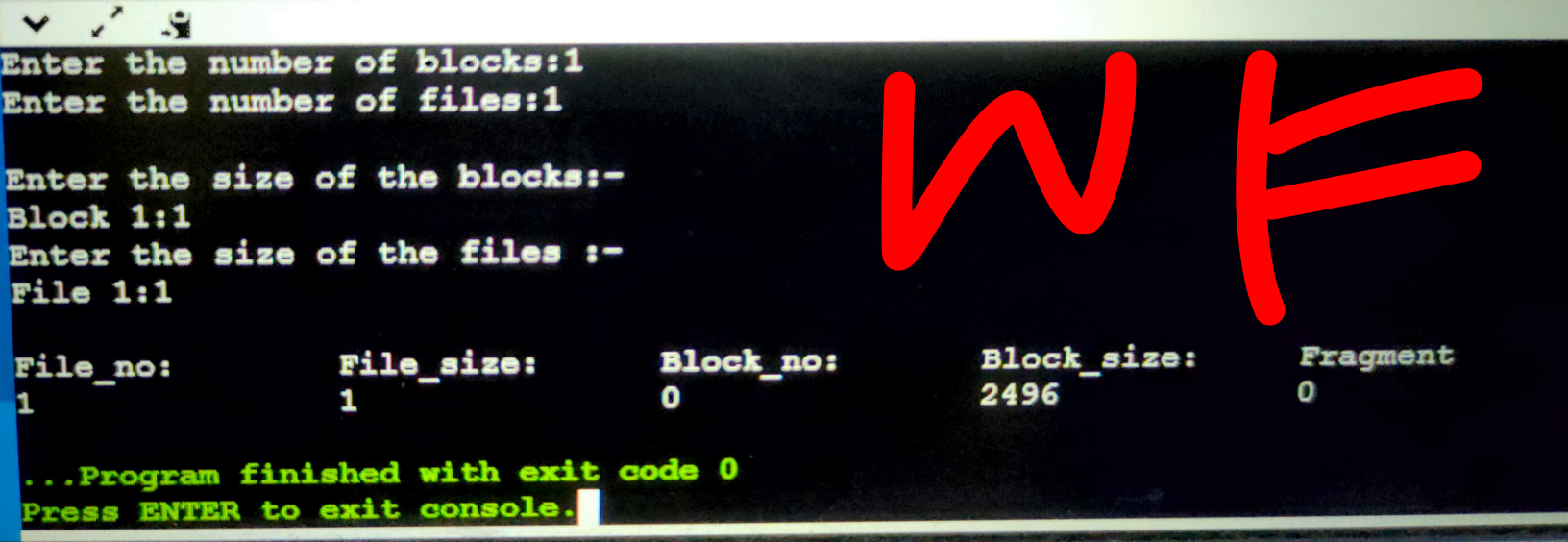

Key of shared memory is 0
Process attached at 0x7f370917e000
Enter some data to write to shared memory

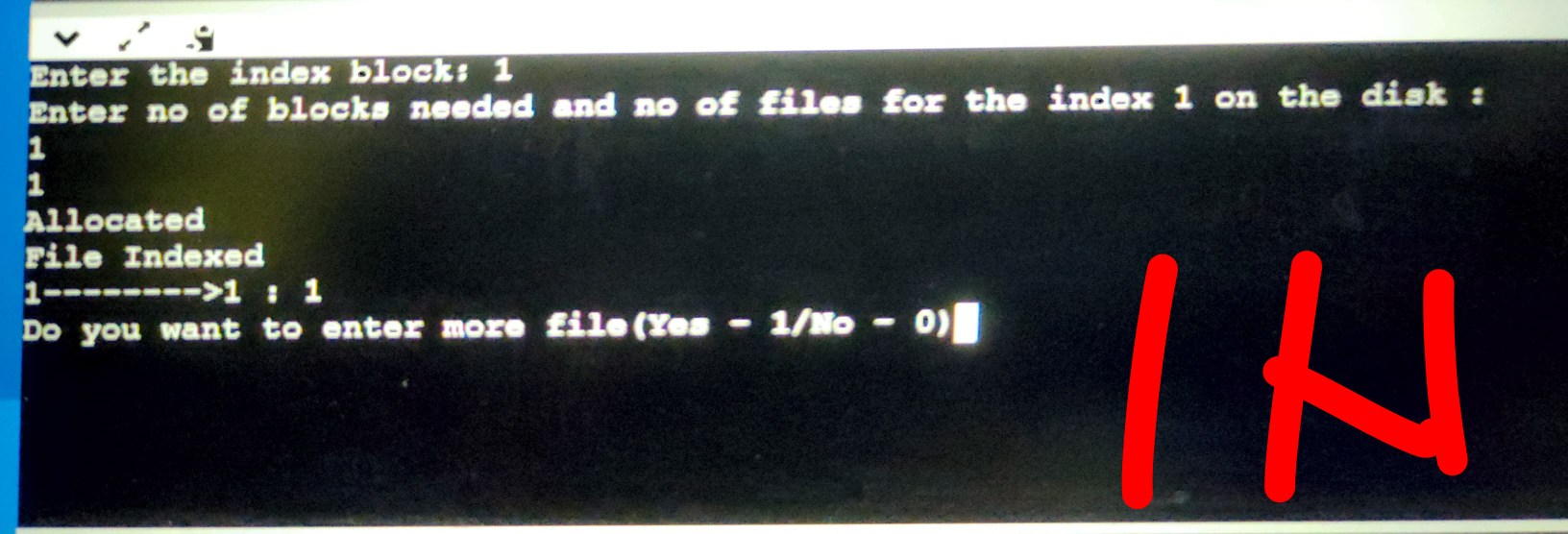

Key of shared memory is -1
Process attached at 0xffffffffffffffff
...Program finished with exit code 0
Press ENTER to exit console.
SM-2


1.PRODUCER
2.CONSUMER
3.EXIT
ENTER YOUR CHOICE
1
producer produces the item1
ENTER YOUR CHOICE
2
consumer consumes item1
ENTER YOUR CHOICE
2
BUFFER IS EMPTY
ENTER YOUR CHOICE
3
...Program finished with exit code 0
Press ENTER to exit console.
PC
SEMA


Memory Management Scheme - First Fit
Enter the number of blocks:1
Enter the number of files:1
Enter the size of the blocks:-
Block 1:1
Enter the size of the files :-
File 1:1
File_no: File_size : Block_no: Block_size: Fragement
1 1 1 1 0
...Program finished with exit code 0
Press ENTER to exit console.
FF


Enter the number of blocks:1
Enter the number of files:1
Enter the size of the blocks:-Block 1:1
Enter the size of the files :File 1:1
File No File Size Block No Block Size Fragment
1 1 1 1 0
...Program finished with exit code 0
Press ENTER to exit console.
BE


Enter the number of blocks:1
Enter the number of files:1
Enter the size of the blocks:-
Block 1:1
Enter the size of the files :-
File 1:1
File_no: File_size: Block_no: Block_size: Fragment
1 1 0 2496 0
...Program finished with exit code 0
Press ENTER to exit console.
WF


Enter the index block: 1
Enter no of blocks needed and no of files for the index 1 on the disk :
1
1
Allocated
File Indexed
1--------->1 : 1
Do you want to enter more file(Yes - 1/No - 0)
1
N