

Operating Systems

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ICSI 412

Assignment2

Compile program

```
root@LAPTOP-0CUR2SRA:/home/ICSI412/Assignment2# gcc producer.c -o producer
root@LAPTOP-0CUR2SRA:/home/ICSI412/Assignment2# gcc consumer.c -o consumer
```

Run program

```
root@LAPTOP-0CUR2SRA:/home/ICSI412/Assignment2# ./producer
```

The results are as follows

```
File numbers.txt fd is: 5
Contents of file numbers.txt:
```

```
97
15
73
7
17
30
71
75
50
48
43
61
92
24
49
17
75
12
79
22
```

```
Parent Process: My pid = 646. I created child pid = 647.
Child Process: My pid = 647. My parent pid = 646.
Even numbers: 30 50 48 92 24 12 22
Sum of odd numbers: 679
```

a) File numbers.txt fd is: fd-of-numbers.txt. 5

b) Contents of file numbers.txt:

97,15,73,7,17,30,71,75,50,48,43,61,92,24,49,17,75,12,79,22

b) A screenshot of your terminal showing both :

(1) the even numbers returned by your consumer program as well as 30 50 48 92
24 12 22

(2) the sum of the odd numbers 679

d) Parent Process: My pid = 646. I created child pid = 647.

e) Child Process: My pid = 647. My parent pid = 646.