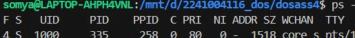```
child process : PID =925
parent process: PID = 924
child process : PID =925
parent process: PID = 924
child process : PID =925
parent process: PID = 924
child process : PID =925
parent process: PID = 924
child process : PID =925
parent process: PID = 924
child process : PID =925
parent process: PID = 924
```

```
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos$ cd dosass4
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ ps -la
F S   UID    PID   PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
4 S  1000    335    258  0  80   0 -  1518 core_s pts/1     00:00:00 bash
0 S  1000    924    898  0  80   0 -   670 hrtime pts/2     00:00:00 a.out
1 S  1000    925    924  0  80   0 -   670 hrtime pts/2     00:00:00 a.out
0 R  1000    952    933  0  80   0 -  2078 -      pts/3     00:00:00 ps
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$
```

```
 F S   UID     PID    PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
 4 S   1000    335     258  0  80   0 -   1518 core_s pts/1    00:00:00 bash
 0 S   1000    924     898  0  80   0 -    670 hrtime pts/2    00:00:00 a.out
 1 S   1000    925     924  0  80   0 -    670 hrtime pts/2    00:00:00 a.out
 0 R   1000    952     933  0  80   0 -   2078 -      pts/3    00:00:00 ps
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ kill 925
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ ps -la
 F S   UID     PID    PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
 4 S   1000    335     258  0  80   0 -   1518 core_s pts/1    00:00:00 bash
 0 S   1000    924     898  0  80   0 -    670 hrtime pts/2    00:00:00 a.out
 1 Z   1000    925     924  0  80   0 -      0 -      pts/2    00:00:00 a.out
 0 R   1000   1040     933  0  80   0 -   2078 -      pts/3    00:00:00 ps
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ 
```

```
22          return 0;
23    }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
parent process: PID = 924
```

```
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ ps -la
F S   UID    PID   PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
4 S   1000   335    258  0  80   0 -  1518 core_s pts/1    00:00:00 bash
0 S   1000   622    594  0  80   0 -   637 do_wai pts/0    00:00:00 a.out
1 S   1000   623    622 34  80   0 -   670 -      pts/0    00:00:36 a.out
0 R   1000   672    630  0  80   0 -  2078 -      pts/2    00:00:00 ps
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ kill 622
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ ps -la
F S   UID    PID   PPID  C PRI  NI ADDR SZ WCHAN  TTY          TIME CMD
4 S   1000   335    258  0  80   0 -  1518 core_s pts/1    00:00:00 bash
1 S   1000   623    591 34  80   0 -   670 -      pts/0    00:00:57 a.out
0 R   1000   704    630  0  80   0 -  2078 -      pts/2    00:00:00 ps
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ 
```

```
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
Child process with PID: 623
```

```
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ gcc Q3.c
Q3.c: In function 'main':
Q3.c:95:5: warning: implicit declaration of function 'wait' [-Wimplicit-function-declaration]
   95 |     wait(NULL);
      |     ^~~~
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ ./a.out

First child process: PID = 1315, Parent PID = 1314
i am first child ,Copying file1.txt to file2.txt...

Second child process: PID = 1316, Parent PID = 1314
i am second child ,Displaying content of file2.txt...
Content of file2:
apple ,
orange ,
banana ,
grape ,
pineapple ,
Third child process: PID = 1317, Parent PID = 1314
i am third child ,displaying Sorted content of file2 in reverse order:
pineapple ,orange ,
grape ,
banana ,
apple ,
Parent process: PID = 1314, All child processes completed.
i am parent ,All child processes completed.
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

compilation terminated.
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ gcc Q4.c
Q4.c: In function 'main':
Q4.c:39:9: warning: implicit declaration of function 'wait' [-Wimplicit-function-declaration]
   39 |         wait(NULL);
      |         ^~~~
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$ ./a.out
Enter the length of the Fibonacci series: 10
Child process with pid:483 and ppid:464: Generating Fibonacci series...
Child process: Fibonacci series generated.
Parent process: Fibonacci series:
0 1 1 2 3 5 8 13 21 34
Parent process: Prime Fibonacci numbers with positions:
Fibonacci[3] = 2 (Prime)
Fibonacci[4] = 3 (Prime)
Fibonacci[5] = 5 (Prime)
Fibonacci[7] = 13 (Prime)
Parent process with pid:464 and ppid:277: Task completed.
somya@LAPTOP-AHPH4VNL:/mnt/d/2241004116_dos/dosass4$
```