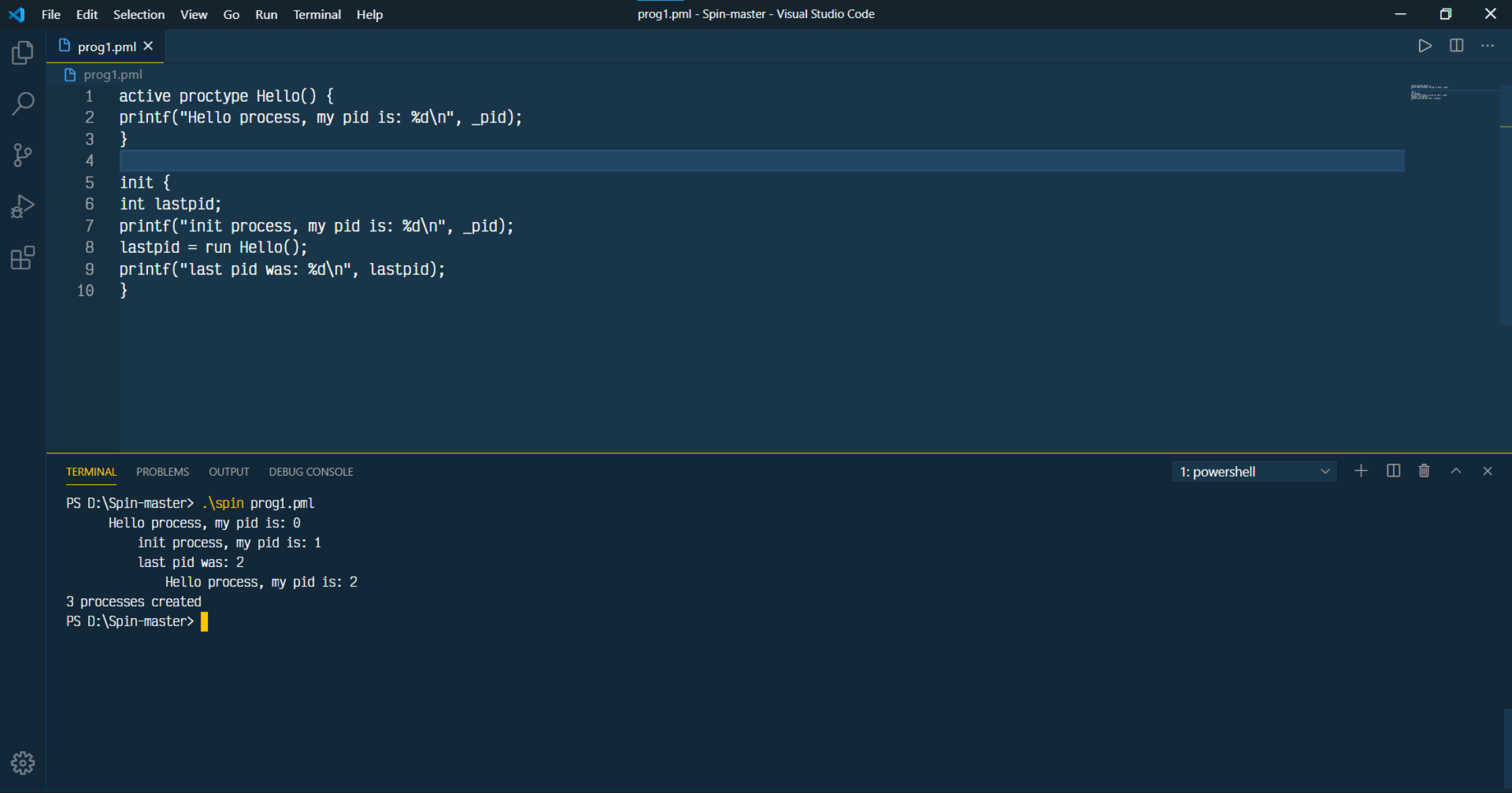

File Edit Selection View Go Run Terminal Help
prog1.pml - Spin-master - Visual Studio Code
prog1.pml
prog1.pml
1 active proctype Hello() {
2 printf("Hello process, my pid is: %d\n", _pid);
3 }
4
5 init {
6 int lastpid;
7 printf("init process, my pid is: %d\n", _pid);
8 lastpid = run Hello();
9 printf("last pid was: %d\n", lastpid);
10 }
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE
1: powershell
PS D:\Spin-master> .\spin prog1.pml
Hello process, my pid is: 0
init process, my pid is: 1
last pid was: 2
Hello process, my pid is: 2
3 processes created
PS D:\Spin-master>

prog1.pml | prog2.pml

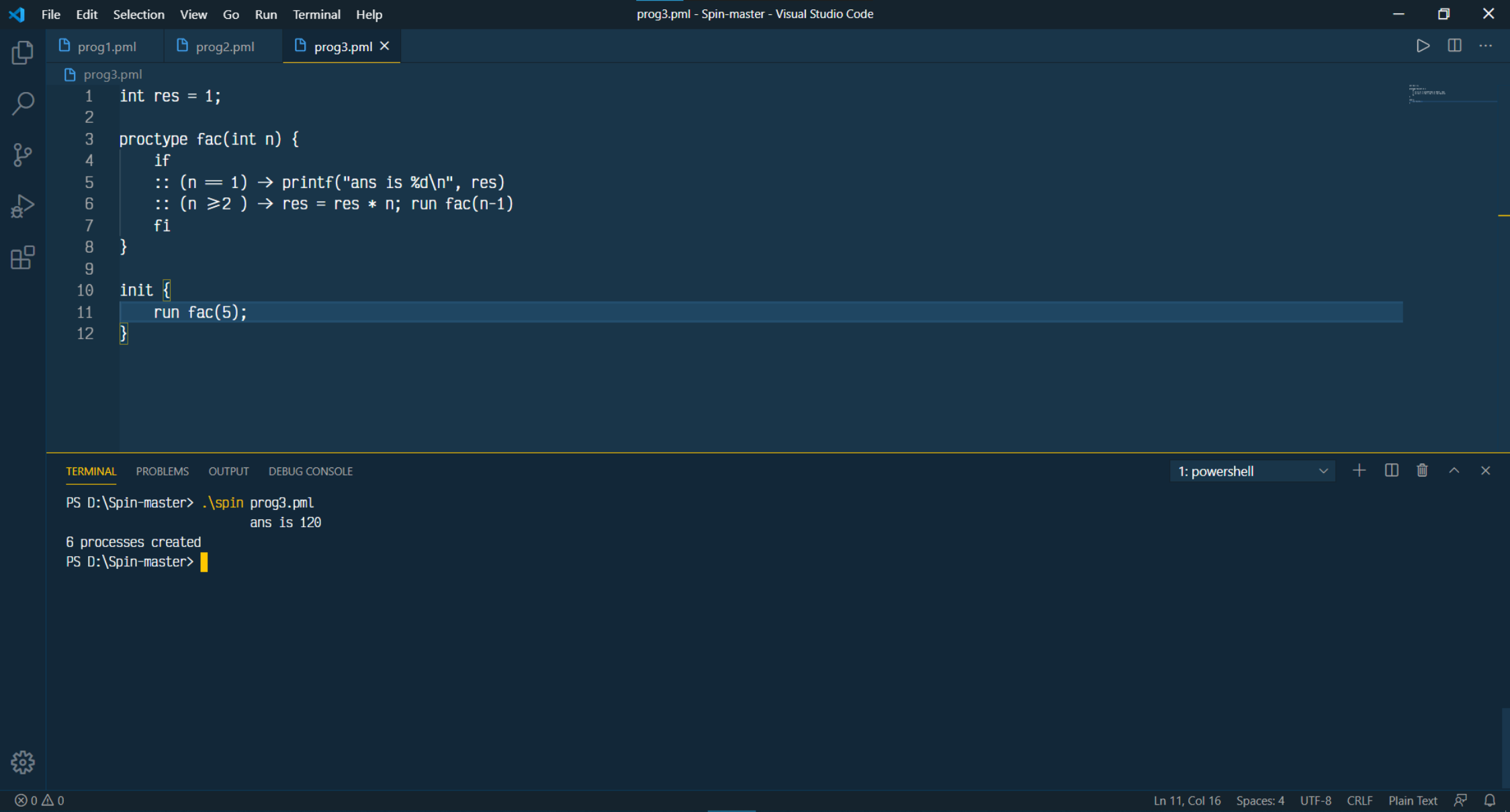
prog2.pml

```
1  proctype gcd(int a;int b) {
2      if
3      :: (b == 0) -> printf("ans is %d\n", a)
4      :: (b != 0) -> run gcd(b, a % b)
5      fi
6  }
7
8  init {
9      run gcd(5, 10);
10 }
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

1: powershell

```
PS D:\Spin-master> .\spin prog2.pml
                ans is 5
4 processes created
PS D:\Spin-master>
```


File Edit Selection View Go Run Terminal Help
prog3.pml - Spin-master - Visual Studio Code
prog1.pml
prog2.pml
prog3.pml
prog3.pml
1 int res = 1;
2
3 proctype fac(int n) {
4 if
5 :: (n == 1) -> printf("ans is %d\n", res)
6 :: (n >=2) -> res = res * n; run fac(n-1)
7 fi
8 }
9
10 init {
11 run fac(5);
12 }
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE
1: powershell
PS D:\Spin-master> .\spin prog3.pml
ans is 120
6 processes created
PS D:\Spin-master>
Ln 11, Col 16 Spaces: 4 UTF-8 CRLF Plain Text

prog1.pml | prog2.pml | prog3.pml | prog4.pml

prog4.pml

```
1   #define SIZE 5
2   chan c = [6] of {byte};
3   chan d = [true] of {bool};
4   byte fullness = 0;
5   active proctype producer() {
6       byte data;
7       do
8       :: fullness < SIZE -> fullness = fullness + 1;
9                             c ! data;
10                            data++;
11                            printf("item produced\n")
12      :: d ? true;
13      od
14  }
15  active proctype consumer() {
16      byte data;
17      do
18      :: c?data; fullness = fullness - 1; d = true; printf("item consumed\n")
19      od
20  }
21  active proctype monitor() {
22      assert (fullness <= SIZE);
23  }
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

1: powershell

```
        item consumed
    item produced
        item consumed
        item consumed
    item produced
    item produced
        item consumed
PS D:\Spin-master>
```