

# OS Lab1

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## 1 Section: Practice

### 1.1 Question 1

1. Can you verify that programs that you start in a terminal window are run in a child process of the corresponding shell? How?

Yes, the PPID of the program that was launched in the terminal window will be the same as the PID of the -bash process.

### 1.2 Question 4

Write command lines for each of the following tasks:

- o To show the first 20 lines of the shell.cpp file.  
head -20 shell.cpp
- o Compile your program, and show only the first 10 lines of the output/error output. g++ fibonacci.cpp -o errorfibo  
head -10 errorfibo
- o Compile your program, and show only error messages (you can grep for error)  
grep error errorfibo  
grep warning errorfibo
- o Find out where variable result are used in all .cpp file. (Note that you can use wildcard to match with any string, i.e., \*.cpp will select all files with .cpp as suffix.)  
grep result \*.cpp