

\* When in the child process, all non-related pipe channels will be closed

- 2) shell java c please check code comments for details)

  1. To run shell, type "I Shell' after "java Boot".
  - 2. Algorithm:
    - O print "shell []"
    - 1) read command and parise to String
    - 3 check if command is "Exit" or "exit". If yos, exit shell, If not, continue
    - 4) split command by ";" since commands commands by ";" are asynchronize call, and they have to dive one by one.
      - (4.1) check if sub command is empty or made by pure spaces. It yes, skip to execute next sub command
      - (4) check if sub command contains "&" If yes, then split sub commands by "&" and executes all commands after slipt at some time. I use a counter to count how many valid process executed. And then use a for loop to run join!" as count of times. So that make sure all synchronize call finish.
    - @ execute asychronize call by ";" and record the tidID. I used a while lo to make sure the current tidID finish, and then continue to next asynchronize a
    - @ increase the "shell' process count by 1