Assignment 6

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1. A child process inherits real user id, real group id, effective user id and effective group id of the parent process, while process id and parent process id are not. Demonstrate.

Code-

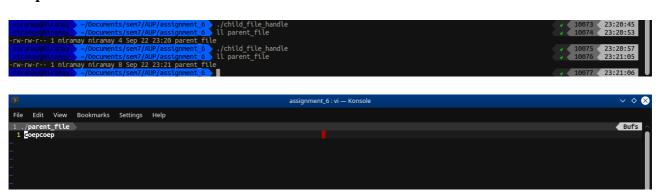
Output-

```
ntranay@Ntranay -/Documents/sem7/AUP/assignment_6 sudo chmod g+s inherit_ids v 10052 17:02:09 ntranay@Ntranay -/Documents/sem7/AUP/assignment_6 ltherit_ids v 10053 17:02:32 -NEWTWST-X1 intranay. -/Documents/sem7/AUP/assignment_6 ltherit_ids v 10053 17:02:33 17:02:33 17:02:33 17:02:33 17:02:33 17:02:35 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:36 17:02:
```

2. Verify whether it is possible for a child process to handle a file opened by its parent Immediately after the fork() call?

Code-

Output-



3. Measures the performance of the getpid() and the fork functions using gettimeofday to measure the execution time. Measure the performance ten times for each of the two system calls and provide the timing results and compute an average for each system call.

Code-

Output-