



```
user@user-virtualbox: ~/CS-UY-3224-Operating-Systems/homework/hw2
File Actions Edit View Help
items/homework/assignment x user@user-virtualbox: ~/CS-U...erating-Systems/homework/hw2 x user@user-virtualbox: ~/CS-U...erating-Systems/homework/hw2 x
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$ ls
input.txt  mycopy  mycopy.c
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$ cat input.txt
Hello world
This is lab 2
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$ id -u
1000
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$ gcc mycopy.c -o mycopy
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$ ./mycopy input.txt output.txt
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$ ls
input.txt  mycopy  mycopy.c  output.txt
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$ cat output.txt
Hello world
This is lab 2
user@user-virtualbox:~/CS-UY-3224-Operating-Systems/homework/hw2$
```

1) What are the system call names for getting the process' userID, opening a file, closing a file, reading a file and writing a file?

userID: getuid

Opening a file: openat

Closing a file: close

Reading a File: read

Writing a File: write

2) How many system calls are (i.e. the count) involved with opening a file, closing a file, reading a file and writing a file? (count each individually. You may either use strace options to aid you in doing so, or you may use grep).

Opening file: 4

Closing files: 4

Writing file: 31

Reading file: 33

3) What was the value of the file descriptor of your read file? Should we expect it to change if you change the order of opening the input and output files?

It was 3, yes it did change when I opened the file after the write file (to 4).

4) What was the value of the file descriptor of your write file? Should we expect it to change if you change the order of opening the input and output files?

It was 4, yes it did change when I opened the file before the read file (to 3).