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Shell Program
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Basic Simulated Command Features

1. The shell print a $ prompt when it is ready to receive a new command from the user.
2. ls -l | wc &

```
$ ls -l | wc &
[4024]
$ █
```

3. Command not found and exit

```
[zhoupt@cslab1 project]$ ./main
$ hello
 hello: Command not found
$ hi
 hi: Command not found
$ █
```

4. Word Count for a file

```
[zhoupt@cslab1 project]$ ./main
$ wc < hello
        6       11      270
$ wc < haod
Fail to read: No such file or directory
[zhoupt@cslab1 project]$ █
```

5. ls -l

```
[zhoupt@cslab1 project]$ gcc main.c -o main
[zhoupt@cslab1 project]$ ./main
$ ls -l
total 64
---------x 1 zhoupt zhoupt     0 Dec 15 22:53 >
-rw-rw-r-- 1 zhoupt zhoupt   270 Dec 15 22:53 hello
-rwxrwxr-x 1 zhoupt zhoupt 15140 Dec 15 22:53 main
-rw-rw-r-- 1 zhoupt zhoupt 11316 Dec 15 22:27 main.c
-rwxrwxr-x 1 zhoupt zhoupt 15125 Dec 15 22:53 shell
-rw-rw-r-- 1 zhoupt zhoupt 11312 Dec 15 22:11 shell.c
drwxrwxr-x 2 zhoupt zhoupt  4096 Dec 15 22:06 test
$ ls -l > hello
total 64
---------x 1 zhoupt zhoupt     0 Dec 15 22:53 >
-rw-rw-r-- 1 zhoupt zhoupt   270 Dec 15 22:53 hello
-rwxrwxr-x 1 zhoupt zhoupt 15140 Dec 15 22:53 main
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-rw-rw-r-- 1 zhoupt zhoupt 11312 Dec 15 22:11 shell.c
drwxrwxr-x 2 zhoupt zhoupt  4096 Dec 15 22:06 test
$ cat hello
total 60
-rwxrwxr-x 1 zhoupt zhoupt 15140 Dec 15 22:27 main
-rw-rw-r-- 1 zhoupt zhoupt 11316 Dec 15 22:27 main.c
-rwxrwxr-x 1 zhoupt zhoupt 15125 Dec 15 22:53 shell
-rw-rw-r-- 1 zhoupt zhoupt 11312 Dec 15 22:11 shell.c
drwxrwxr-x 2 zhoupt zhoupt  4096 Dec 15 22:06 test
```

6. cd with the feature of pwd

```
[zhoupt@cslab1 project]$ ./main
$ cd test
/home/zhoupt/project/test
$ ^C
[zhoupt@cslab1 project]$ ls
main   main.c   shell   shell.c   test
[zhoupt@cslab1 project]$ ./main
$ cd test
/home/zhoupt/project/test
$ cd ..
/home/zhoupt/project
$ cd ~
/home/zhoupt
$ cd
/home/zhoupt
```