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## How to run our program?

```
g++ main.c -o shell
./shell
```

## **Features:**

1. Execute simple commands with child processes:

We support internal command like Is, Is -la, pwd,...

```
zero>>ls
or
zero>>pwd
```

## Result:

```
zero>>ls
Parent spawned a child <16152>
main.c_ shell
```

Parent spawned a child <16153> /home/thanhvo/Desktop/cs333/simple-shell

2. Execute simple command with &:

SIMPLE SHELL 1

zero>>ls &

# Parent spawned a child <16159> main.c shell Child exited with status = 0

## 3. Execute output redirection:

When you want execute output redirect, you just use ">" as redirect character

```
zero>>pwd > out.txt
```

## Result:

# zero>>pwd > out.txt Parent\_spawned a child <16169>

and data in out.txt like this:

```
out.txt x
/home/thanhvo/Desktop/cs333/simple-shell
```

## 4. Execute input redirection:

When you want execute input redirect, you just use "<" as redirect character

```
zero>> sort < out.txt
```

## Result:

SIMPLE SHELL 2

```
zero>>sort < out.txt
Parent spawned a child <16224>
/home/thanhvo/Desktop/cs333/simple-shell
```

5. Execute two commands with a pipe:

Use '|' as linking character between two commands

```
zero>>ls -la | less
```

## Result:

```
total 40
drwxrwxr-x 2 thanhvo thanhvo 4096 Jun 5 22:16 .
drwxrwxr-x 5 thanhvo thanhvo 4096 May 27 21:20 ..
-rw-rw-r-- 1 thanhvo thanhvo 7926 Jun 5 21:55 main.c
-rwx----- 1 thanhvo thanhvo 41 Jun 5 22:16 out.txt
-rwxrwxr-x 1 thanhvo thanhvo 17864 Jun 5 22:12 shell
(END)
```

## 6. Exit:

When you want to exit our program, you can use "exit" or "quit" or "\q" to exit this shell.

```
zero>>exit
or
zero>>quit
or
zero>>\q
```

SIMPLE SHELL 3