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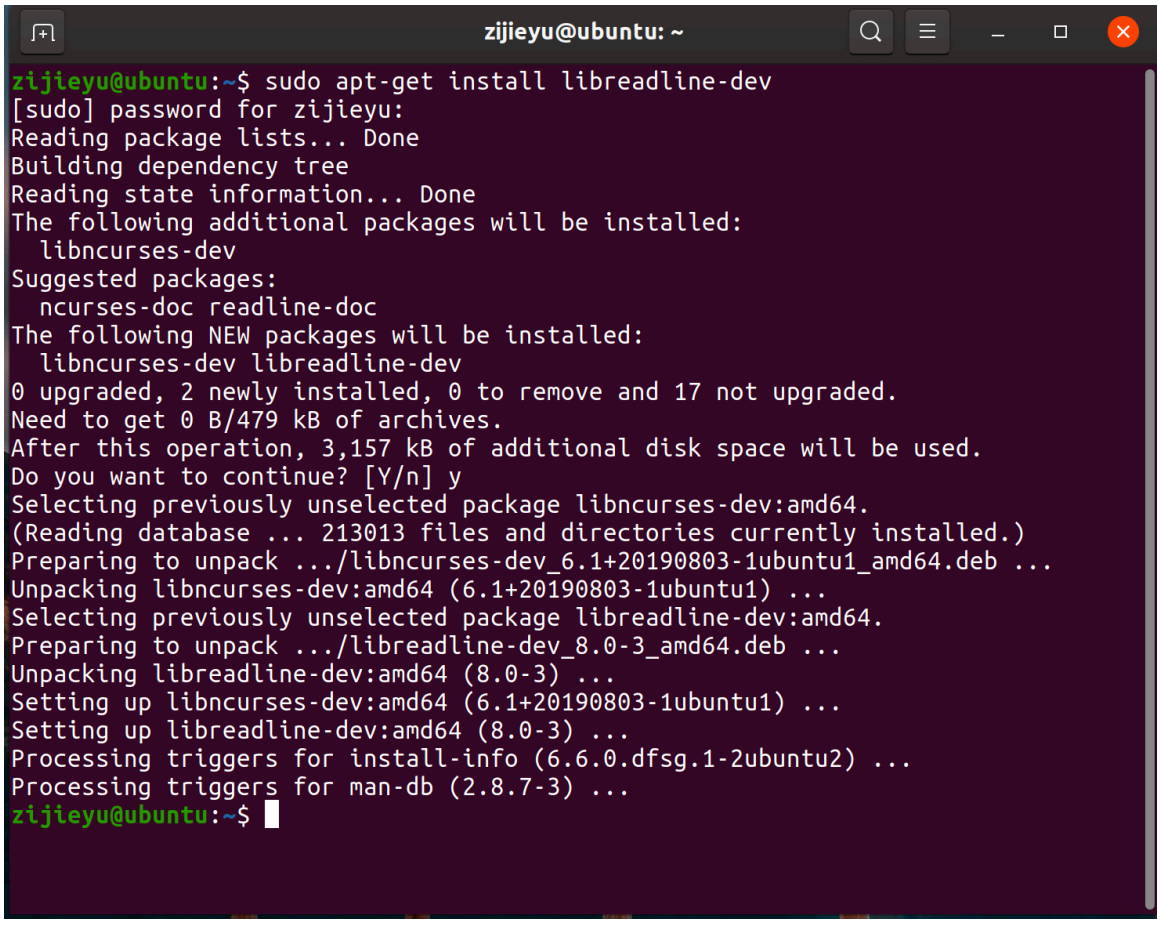
Before running my code:

Since I use **#include <readline/readline.h>**, so if you want to run my program, you need to install **libreadline-dev** first.

Just paste below code to the shell, and then it will install automatically:

```
sudo apt-get install libreadline-dev
```



(If you want to uninstall or remove libreadline-dev after running my program:)

```
sudo apt-get remove --auto-remove libreadline-dev
```

How to run part 2:

To meet assignment requirements, use the exec function, my majority part of part 2 code is actually in part 1.c file, and part2.c is a program that would just create two process that one use exec function to call part1.c program, the other one is add some welcome sentence to the shell.

In this case, please run part 1 code first. Using command line below:

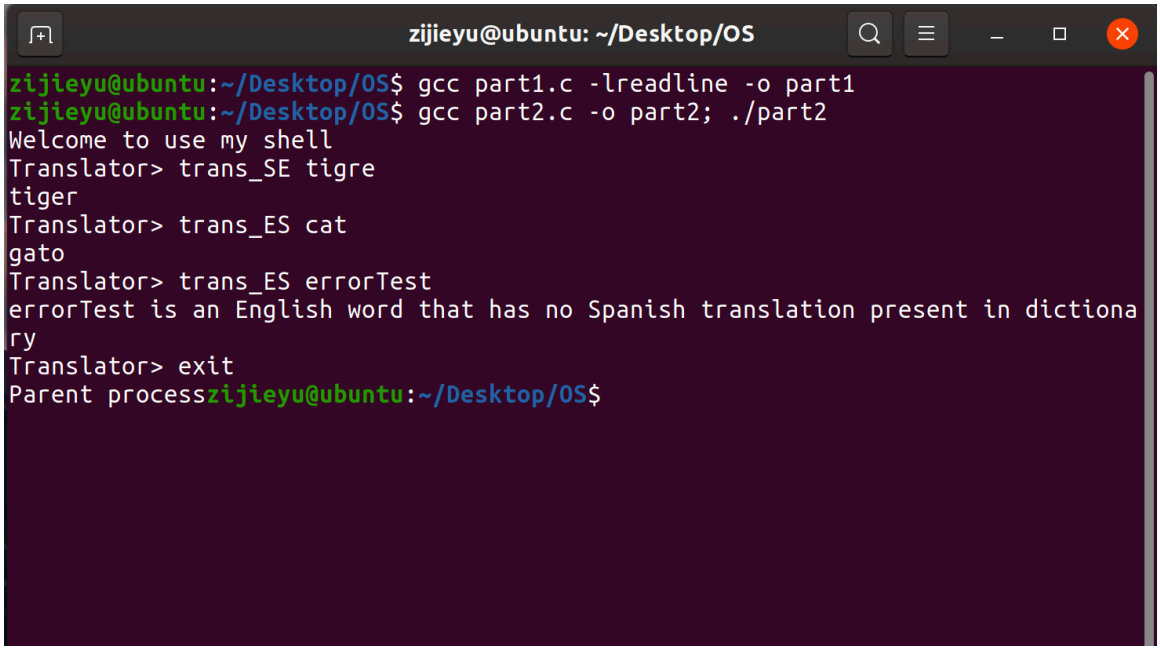
```
gcc part1.c –lreadline –o part1
```

Then it will create part1 file. Then run part 2 code:

```
gcc part2.c –o part2; ./part2
```

It will show my shell.

Output screenshot:



How to run part 3:

Since only Part 2 asks us to use exec function, so my part 3 program is independent, just simply run one file should be fine.

```
gcc part3.c -lreadline -o part3; ./part3
```

Output screenshot:

gcc -Wall test