

- **Note:** The lab content is completed by four members of VE482 Project Team 1 , which are
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- What is a kernel module, and how does it different from a regular library?

A kernel module is an object file which serves to extend the usage of the kernel, for example, they can add drivers to harwares, install new filesystems, add new syscalls, etc.

Comapred with a a kernel module, a library usually offers some resources that can be used by other programs, instead of offering independent features as kernel module does.
- How to compile a kernel module?

In the Makefile, you should define the name of object-m, the version of your kernel (KVERSION=), and then use the following line to make

```
make -C [module directory for the kernel] M=[working dir] modules
```
- Programing part description is in code/README
- How is information shared between the kernel and user spaces?

The functions `copy_to_user()` and `copy_from_user()` are used.
- It is in code/README