Отчет по лабораторной работе №1 Модуль 5 Долгих Вячеслав

Скриншот компиляции, вставки и работы примитивного модуля ядра:

```
yacheslav@vyacheslav:~/Module5/helloK$ ls
hello.c Makefile
vyacheslav@vyacheslav:~/Module5/helloK$ make
make -C /lib/modules/6.5.0-35-generic/build M=/home/vyacheslav/Module5/helloK modules
make[1]: Entering directory '/usr/src/linux-headers-6.5.0-35-generic'
warning: the compiler differs from the one used to build the kernel
The kernel was built by: x86_64-linux-gnu-gcc-12 (Ubuntu 12.3.0-1ubuntu1~22.04) 12.3.0
   You are using: gcc-12 (Ubuntu 12.3.0-1ubuntu1-22.04) 12.3.0
CC [M] /home/vyacheslav/Module5/helloK/Module.symvers
   CC [M] /home/vyacheslav/Module5/helloK/hello.mod.o
LD [M] /home/vyacheslav/Module5/helloK/hello.ko
BTF [M] /home/vyacheslav/Module5/helloK/hello.ko
Skipping BTF generation for /home/vyacheslav/Module5/helloK/hello.ko due to unavailability of vmlinux make[1]: Leaving directory '/usr/src/linux-headers-6.5.0-35-generic' vyacheslav@vyacheslav:~/Module5/helloK$ sudo insmod hello.ko [sudo] password for vyacheslav:
Sorry, try again.
[sudo] password for vyacheslav:
 vyacheslav@vyacheslav:~/Module5/helloK$ sudo dmesg | tail -1
[ 5994.817796] Hello world!
vyacheslav@vyacheslav:~/Module5/helloK$ modinfo hello.ko filename: /home/vyacheslav/Module5/helloK/hello.ko description: My first hello world Kernel
                         My first hello world Kernel
Dolgikh Vyacheslav
author:
                          ThisIsMine
license:
srcversion:
                          A5F0DCF049005A5C27E4E09
depends:
retpoline:
                          hello
name:
                          6.5.0-35-generic SMP preempt mod_unload modversions
vermagic:
vyacheslav@vyacheslav:~/Module5/helloK$ lsmod | grep "hello"
                                      12288 0
vyacheslav@vyacheslav:~/Module5/helloK$ sudo rmmod hello.ko
vyacheslav@vyacheslav:~/Module5/helloK$ sudo dmesg | tail -1
[ 6079.007191] Goodbuy world!
vyacheslav@vyacheslav:~/Module5/helloK$ lsmod | grep "hello" vyacheslav@vyacheslav:~/Module5/helloK$
```

Для вставки модуля было необходимо отключить безопасный режим, который не позволяет пользователям вставлять собственные модули ядра.