

## **OUTPUT of CONSOLE:**

```
alex@bletchleyPark:~/Documents/School/Senior/FirstSemester/OS/PA2$ make
make -C /lib/modules/5.0.0-31-generic/build
M=/home/alex/Documents/School/Senior/FirstSemester/OS/PA2 modules
make[1]: Entering directory '/usr/src/linux-headers-5.0.0-31-generic'
CC [M] /home/alex/Documents/School/Senior/FirstSemester/OS/PA2/simple.o
Building modules, stage 2.
MODPOST 1 modules
CC /home/alex/Documents/School/Senior/FirstSemester/OS/PA2/simple.mod.o
LD [M] /home/alex/Documents/School/Senior/FirstSemester/OS/PA2/simple.ko
make[1]: Leaving directory '/usr/src/linux-headers-5.0.0-31-generic'
```

```
alex@bletchleyPark:~/Documents/School/Senior/FirstSemester/OS/PA2$ sudo insmod simple.ko
alex@bletchleyPark:~/Documents/School/Senior/FirstSemester/OS/PA2$ dmesg
```

```
[ 166.829897] Loading Module
[ 166.829899] Linked List Contents:
[ 166.829899] Index: 0
[ 166.829900] Month: 1
[ 166.829900] Day: 1
[ 166.829901] Year: 1800
[ 166.829901]
[ 166.829901] Index: 1
[ 166.829901] Month: 9
[ 166.829902] Day: 21
[ 166.829902] Year: 2001
[ 166.829902]
[ 166.829903] Index: 2
[ 166.829903] Month: 10
[ 166.829903] Day: 22
[ 166.829904] Year: 2002
[ 166.829904]
[ 166.829904] Index: 3
[ 166.829905] Month: 11
[ 166.829905] Day: 23
[ 166.829906] Year: 2003
[ 166.829906]
[ 166.829906] Index: 4
[ 166.829907] Month: 1
[ 166.829907] Day: 24
[ 166.829907] Year: 2004
```

```

alex@bletchleyPark:~/Documents/School/Senior/FirstSemester/OS/PA2$ sudo rmmod simple
alex@bletchleyPark:~/Documents/School/Senior/FirstSemester/OS/PA2$ dmesg
[ 166.829897] Loading Module
[ 166.829899] Linked List Contents:
[ 166.829899] Index: 0
[ 166.829900] Month: 1
[ 166.829900] Day: 1
[ 166.829901] Year: 1800
[ 166.829901]
[ 166.829901] Index: 1
[ 166.829901] Month: 9
[ 166.829902] Day: 21
[ 166.829902] Year: 2001
[ 166.829902]
[ 166.829903] Index: 2
[ 166.829903] Month: 10
[ 166.829903] Day: 22
[ 166.829904] Year: 2002
[ 166.829904]
[ 166.829904] Index: 3
[ 166.829905] Month: 11
[ 166.829905] Day: 23
[ 166.829906] Year: 2003
[ 166.829906]
[ 166.829906] Index: 4
[ 166.829907] Month: 1
[ 166.829907] Day: 24
[ 166.829907] Year: 2004
[ 166.829907]
[ 174.104123] Destroying List
[ 174.104124] i          M          D          Y
[ 174.104125] 0          1          1          1800
[ 174.104126] 1          9          21          2001
[ 174.104126] 2          10         22          2002
[ 174.104127] 3          11         23          2003
[ 174.104127] 4          1          24          2004
[ 174.104128] GLOBAL_HEADPTR NULLIFIED
[ 174.104128] All nodes deleted.
[ 174.104128] Removing Module
alex@bletchleyPark:~/Documents/School/Senior/FirstSemester/OS/PA2$

```