

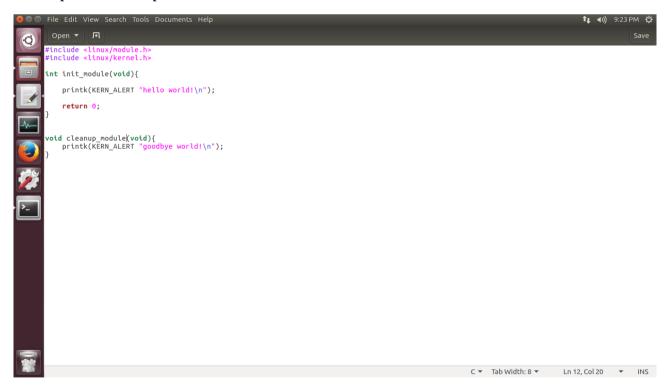
## Part 1

## Implementation of Simple "hello world" Module and Run

Every module structure have two major functions:

- 1. init
  - executed when the module is loaded into kernel
- 2. cleanup
  - executed when the module is removed from kernel

the simple module implementation is here:



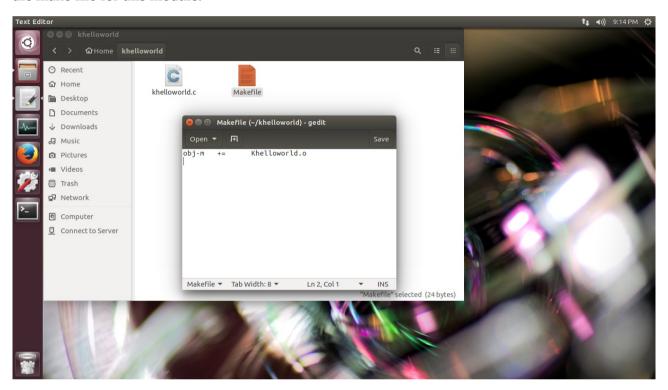
notes:

module.h is for the module itself

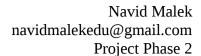


kernel.h is for the KERN\_ALERT

the make file for this module:

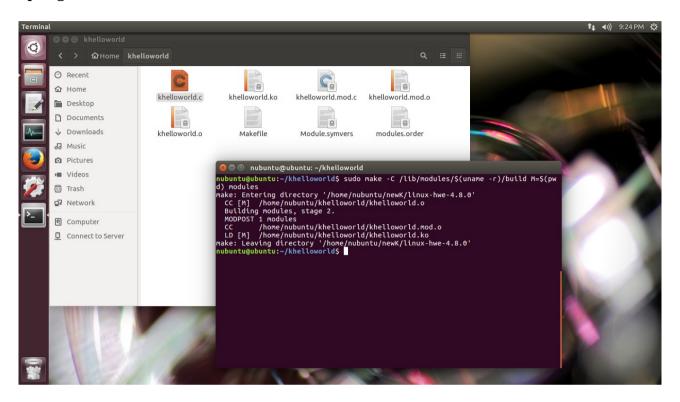


now lets compile the module:

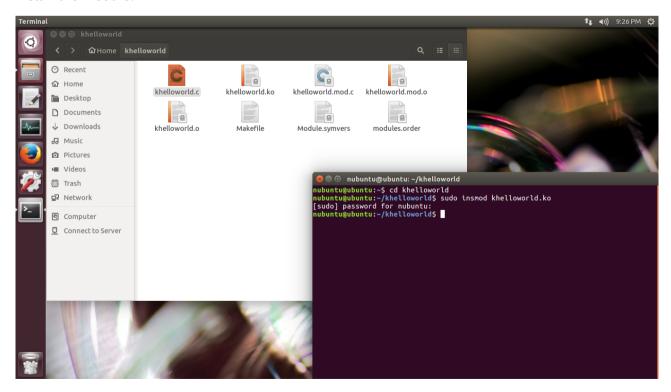




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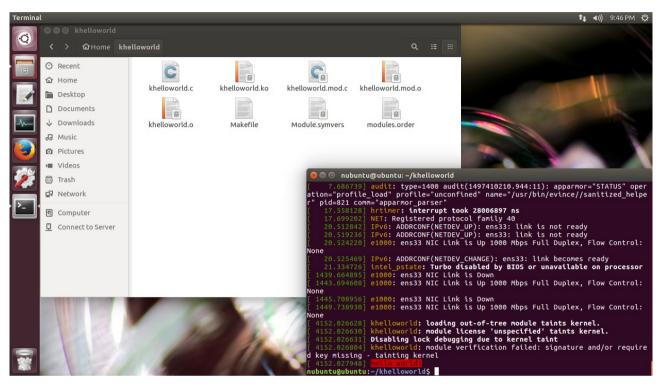
#### install the module:





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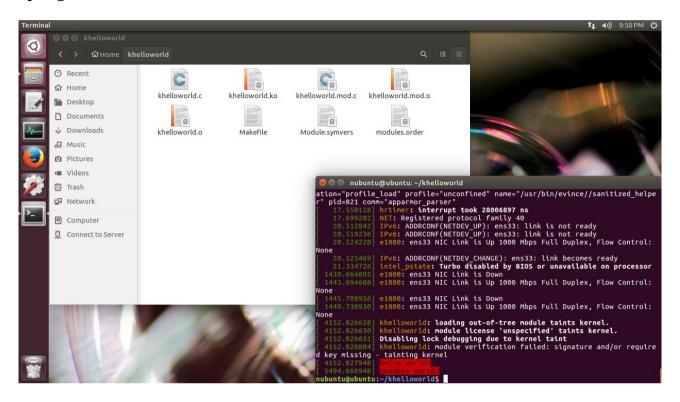
now checking the dmesg:



now you can remove the module with sudo rmmod khelloworld.ko and check dmesg:



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### End of part one