

UMass Boston CS 240
Homework 1
Due on Mon 12:15PM, 11/2/2020

1 Try Some Linux Commands

(Wait until server is back on running) Log onto the department server and create a folder called hw1 in your cs240 directory. Make sure it is exactly hw1.

2 Write and Run a C Program

Writing a source code like this that prints out your name and upload to the hw1 folder. Your Unix account name and full name have to be there.

```
/* Project: hw1
 * Account Name: haoyu
 * Name      : Haoyu Wang
 * Date      : 09/08/2019
 * File      : name.c
 * Notes     : prints out my name Haoyu Wang
 */
#include <stdio.h>

int main(void)
{
    printf("Haoyu Wang!\n");
    return 0;
}
```

3 Makefile

Write a makefile within folder hw1 to compile your code into the file "name.out" and a "clean" rule which remove the file "name.out".

Compiling rule should be the first rule.
Borrow from demo.

4 Script

The script command in Linux is used to record all the terminal activities. After you run the script command, all the terminal activities will be recorded into a typescript file until you run the exit command.

(Note, you can give the typescript file a name by running the script the_name command. But you do not do it for this homework.)

For example:

```
haoyu@itserver6:~$ script
Script started, file is typescript
haoyu@itserver6:~$ pwd
/home/haoyu
haoyu@itserver6:~$ cd cs240/
haoyu@itserver6:~/cs240$ pwd
/home/haoyu/cs240
haoyu@itserver6:~/cs240$ ls
name.c  makefile
haoyu@itserver6:~/cs240$ exit
exit
Script done, file is typescript
haoyu@itserver6:~$ cat typescript
Script started on Fri 06 Sep 2019 09:58:07 PM EDT
haoyu@itserver6:~$ pwd
/home/haoyu
haoyu@itserver6:~$ cd cs240/
haoyu@itserver6:~/cs240$ pwd
/home/haoyu/cs240
haoyu@itserver6:~/cs240$ ls
name.c  makefile
haoyu@itserver6:~/cs240$ exit
exit
Script done on Fri 06 Sep 2019 09:58:44 PM EDT
haoyu@itserver6:~$
```

Now, log on to the department server stay in your home directory and start the script command. Then run these command successively:

```
script
ls
cat name.c
cat makefile
make
./name.out
make clean
ls
exit
```

At last, print out the typescript you get, and submit a hard copy of it in class, on 11, Feb. Do all these things locally this time.