

ICS 365-01 Organization of Programming Languages Fall 2022

Programming Assignment 1

Bash Shell Script Programming

Due: 1:00am, Tuesday, Sept. 20, 2022

- Write a (*bash*) shell utility called **myjunk**, on our Linux server, that satisfies the following specification:
Utility: myjunk -lp { file Name } *
- myjunk** is a replacement for the *rm* utility. Rather than removing files, it moves them into a subdirectory called ".junk" under your home directory. If ".junk" doesn't exist, it will be automatically created through your script.
- There are two options provided by script "myjunk," which are defined as follows:
 - l** used for listing the current contents under directory ".junk"
 - p** used for purging the contents under directory ".junk"
- If your script is executed without either an option or a file name(s), your script should display the usage of the script as shown in the screenshot provided below;
- If your script is executed with a file that does not exist, your script should display the error message as shown in the screenshot provided below.
- To learn how to write a Unix shell script:
 - Please read the handout for learning shell programming
- Remember to include proper comments along with your script
- Please upload the following items to D2L by the deadline:
 - Your script file (a text file with .txt. Don't upload it as a .sh file): *myjunk*
 - A pdf file that shows the screenshot of the testing that is similar to the one below:

```
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ls -l
total 4
-rwxr-xr-x 1 ics365fa2235 ics365fa22 520 2022-08-26 myjunk
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ touch aaa bbb ccc
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ls -l
total 4
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 aaa
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 bbb
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 ccc
-rwxr-xr-x 1 ics365fa2235 ics365fa22 520 2022-08-26 myjunk
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk -l
total 0
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk aaa
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ls -l
total 4
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 bbb
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 ccc
-rwxr-xr-x 1 ics365fa2235 ics365fa22 520 2022-08-26 myjunk
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk -l
total 0
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 aaa
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk bbb ccc
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ls -l
total 4
-rwxr-xr-x 1 ics365fa2235 ics365fa22 520 2022-08-26 myjunk
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk -l
total 0
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 aaa
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 bbb
-rw-r--r-- 1 ics365fa2235 ics365fa22 0 2022-08-26 ccc
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk -p
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk -l
total 0
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$ ./myjunk ddd eee
File-name-error: File ddd cannot be found.
File-name-error: File eee cannot be found.
ics365fa2235@sp-cfsics:~/progs/prog01/testingProg01$
```