
LETS UPGRADE

LINUX ADMINISTRATION ESSENTIALS

ASSIGNMENT DAY 8

09 DECEMBER 2020

ASSIGNMENT 0

- 1. Create a simple shell script to tell the user about their session they need to know:
- What their username is
- What the current date is
- What the time is
- What their current working directory is
- How many files they have in that directory
- What is the biggest file in their current directory.

```
(gurus) guru@pyimagesearch-gurus:~$ ./ass0.sh
THE ACTIVE SESSIONS ARE
guru :0 2020-12-09 12:25 (:0) guru pts/0 2020-12-10 10:28 (:0)
OUR USERNAME IS : guru
THE CURRENT DATE AND TIME IS : Thu Dec 10 14:40:36 EST 2020
YOUR CURRENT WORKING DIRECTORY IS : /home/guru
THE FOLLOWING ARE THE LIST OF FILES IN THE CURRENT WORING DIRECTORY:
total 260
lrwxrwxr-x
                                   4096 Dec 10 2018 apple1
4096 Dec 10 2018 apple2
             2 guru guru
drwxrwxr-x 2 guru guru
-rwxrwxr-x 1 guru guru
                                    265 Dec 10 14:34 ass02.sh
                                    437 Dec 10 14:39 ass0.sh
- FWXFWXF - X
              1 guru guru
                                     0 Dec 19 2018 barcode and qr code scanner~
- FW - FW - F - -
              1 guru guru
                                                  2020 _build
2016 caffe
                                   4096 Mar 21
drwxrwxr-x 2 guru guru
                                  4096 Mar 9
44866 Mar 20
lrwxrwxr-x 16 guru guru
                                                   2020 calc
rwxrwxr-x 1 guru guru
                                    212 Mar 20
                                                   2020 calc.cmi
- - - - W - F - -
              1 guru guru
                                     592 Mar 20
                                                  2020 calc.cmo
                guru guru
rw-rw-r-- 1
              1 guru guru
                                    328 Mar 20
                                                  2020 calc.ml
                guru guru
                                      0 Aug 22 2019 defaults
96 Jul 7 12:19 Desktop
                guru guru
rwxr-xr-x 10
                                   4096 Jul
                                   0 Dec 10 2018 dhanya.txt
4096 Dec 10 14:21 dir_1
                guru guru
rwxrwxr-x
                guru guru
                                   4096 Dec 10 14:12 dir_2
rwxrwxr-x
              2 guru guru
                                   4096 Dec 4 11:44 Documents
4096 Oct 27 12:05 Downloads
rwxr-xr-x
                guru guru
lrwxr-xr-x 4 guru guru
                                   8980 Mar 9 2016 examples.desktop
- - - - - - - -
              1 guru guru
                                  25640 Oct 17 13:40 Firefox_wallpaper.png
 ---- ----
              1 quru quru
                                    484 Mar 20 2020 lexer.cmi
              1 quru quru
-rw-rw-r-- 1 guru guru
-rw-rw-r-- 1 guru nuru
                                   1907 Mar 20 2020 lexer.cmo
                                   6758 Mar 20
                                                   2020 lexer.ml
2020 lexer.mll
2020 lexer.mll~
              1 guru guru
                                     583 Mar 20
                                    4096 Mar 9
490 Mar 20
 lrwxr-xr-x 2 guru guru
                                                   2016 Music
                                                   2020 parser.cmi
              1 guru guru
 - FW - FW - F - -
              1 guru guru
                                    2093 Mar 20
                                                   2020 parser.cmo
 - FW - FW - F - -
              1 guru guru
                                    4709 Mar 20
                                                   2020 parser.ml
 - - - - - - - - - - - - -
              1 guru guru
                                    161 Mar 20
                                                   2020 parser.mli
                                                   2020 parser.mly
2019 Pictures
 - FW- FW- F--
              1 guru guru
                                    804 Mar 20
                                    4096 Mar 15
              2 guru guru
drwxr-xr-x
drwxr-xr-x 2 guru guru
                                   4096 Mar 9
                                                   2016 Public
                                  39002 Aug 30 2019 quiz.odt
2703 Jul 7 05:59 sample.t
 - FW - FW - F - -
              1 guru guru
                                                 05:59 sample.txt
 - FW - FW - F - -
              1 guru guru
drwxrwxr-x
              5 guru guru
                                    4096 Mar
                                                  2016 services
drwxr-xr-x
              2 guru guru
                                    4096 Mar
                                                   2016 Templates
              1 root root 1000000000 Dec
                                               9 13:51 text1.txt
drwxr-xr-x 2 guru guru
                                    4096 Mar
THE LARGEST FILE IN THE CURRENT WORKING DIRECTORY IS:
1000000000 ./text1.txt
```

ASSIGNMENT 1

Create a directory with a few test files in it (the files can be empty). Now write a script that for every file in that directory you rename it to have an extension of today's date in YYYYMMDD format.

```
(gurus) guru@pyimagesearch-gurus:~$ mkdir dir_1
(gurus) guru@pyimagesearch-gurus:~$ cd dir_1
(gurus) guru@pyimagesearch-gurus:~/dir_1$ touch text1.txt
(gurus) guru@pyimagesearch-gurus:~/dir_1$ touch text2.txt
(gurus) guru@pyimagesearch-gurus:~/dir_1$ touch text3.txt
(gurus) guru@pyimagesearch-gurus:~/dir_1$ touch text4.txt
(gurus) guru@pyimagesearch-gurus:~/dir_1$ touch text4.txt
text1.txt text2.txt text3.txt text4.txt
```

```
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```

ASSIGMENT 2

Write a script that takes a number as an input and reverses it out to the user. For example, if the original number is 74985, the output should be 58947.

```
(gurus) guru@pyimagesearch-gurus:~$ vi ass02.sh
(gurus) guru@pyimagesearch-gurus:~$ ./ass02.sh

REVERSING A NUMBER
ENTER A NUMBER
83452
THE REVERSED NUMBER IS..
25438
```

ASSIGNMENT 3

Write a script to validate how secure someone's password is. Things you would care about:

- Length should be 8 or more characters
- The password should contain numbers and letters
- There should be both uppercase and lowercase letters

(gurus) guru@pyimagesearch-gurus:~\$ vi ass3.sh (gurus) guru@pyimagesearch-gurus:~\$./ass3.sh PASSWORD VALIDATION ENTER YOUR PASSWORD iop Password must be atleast 8 characters!!! (gurus) guru@pyimagesearch-gurus:~\$./ass3.sh PASSWORD VALIDATION ENTER YOUR PASSWORD fuxgudwjx Password must contain atleast 1 uppercase, lowercase, digit characters (gurus) guru@pyimagesearch-gurus:~\$./ass3.sh PASSWORD VALIDATION ENTER YOUR PASSWORD Top234inot Top234inot YOUR PASSWORD IS STRONG!!!