

Lab Evaluation

Course Code: CSE 310

Course Title: Operating Systems Lab

Submitted to:

Name: Sumon Saha

Assistant Professor

Dept. of CSE

at Bangladesh University of Business and Technology.

Submitted by:

Name: Syeda Nowshin Ibnat

ID: 17183103020

Intake:39

Section: 01

Program: B.Sc. in CSE

Date of Submission: 05/01/2021

1) Q: Create a file year 2020 that will contain a calendar from January – December for the year 2020.

Solution:

```
nowshin@Lenovoip320:~$ cat > year2020.txt
Year 2020
^C
nowshin@Lenovoip320:~$ cat year2020
nowshin@Lenovoip320:~$ cat year2020.txt
Year 2020
```

```
noverhing|Lenovolp32e:-S cal 2020
ভান্যালী (required)
বি নামেনি বুৰ তামন বু তামন বি তামনাল বি সোমানি বুৰ তামন বু তাম
```

2) Q: List all files whose names begin with the letter g, —have any three characters following the g, —and end with "tly.txt".

Solution:

```
nowshingLenovotp320:-$ pwd
/home/nowshin
nowshingLenovotp320:-$ ls
abc.txt demo_file1.txt demo_file.txt Desktop Downloads file23 fourth.sh lab.txt new11 new1.txt Pictures sample snap third.sh Nork year2020.txt
book demo_file2.txt demo.txt Documents file file.sh htly.txt Music new11 new1.txt Public second.sh Templates Videos year2020
nowshingLenovotp320:-$ cat > grtly.txt
^C
nowshingLenovotp320:-$ cat > good.txt
^C
nowshingLenovotp320:-$ cat > grill.txt
^C
nowshingLenovotp320:-$ s -d grill.txt
^C
nowshingLenovotp320:-$ s -d
```

3) Q: Sort the home directory by the size of the file.

Solution:

```
nowshin@Lenovoip320:/home$ pwd
/home
nowshin@Lenovoip320:/home$ cd nowshin
nowshin@Lenovoip320:~$ pwd
/home/nowshin
nowshin@Lenovoip320:~$ du -a /home/ | sort -n -r | head -n 5
170860 /home/
170856 /home/nowshin
126956 /home/nowshin/.cache
120796 /home/nowshin/.cache/mozilla
120792 /home/nowshin/.cache/mozilla/firefox
nowshin@Lenovoip320:~$
```

4) Q: Write a shell script sum.sh that takes an unspecified number of command line arguments (up to 9) of ints and finds their sum. Modify the code to add a number to the sum only if the number is greater than 10.

Solution:

```
voip320:~$ pwd
       /home/nowshin
             nowshin@Lenovoip320:~$ cat > sum.sh
         nowshin@Lenovoip320:~$ ls -l
total 108
                                                                                                                                                                                                                                                           13 ডিসেম্বর
0 ডিসেম্বর
31 ডিসেম্বর
8 ডিসেম্বর
157 ডিসেম্বর
82 ডিসেম্বর
80 ডিসেম্বর
         total 108
-rw-rw-r-- 1 nowshin nowshin
-rw-rw-r-- 1 nowshin nowshin
-rw-rw-r-- 1 nowshin nowshin
-rw-rw-r-- 1 nowshin nowshin
                                                                                                                                                                                                                                                                                                                                                           29 15:37 abc.txt
29 16:59 book
-rw-rw-r-- 1 nowshin nowshin 31
-rw-rw-r-- 1 nowshin nowshin 31
-rw-rw-r-- 1 nowshin nowshin 31
-rw-rw-r-- 1 nowshin nowshin 157
-rw-rw-r-- 1 nowshin nowshin 4096
drwxr-xr-x 2 nowshin nowshin 4096
drwxr-xr-x 2 nowshin nowshin 4096
drwxr-xr-x 1 nowshin nowshin 4096
-rw-rw-r-- 1 nowshin nowshin 33
-rw-rw-r-- 1 nowshin nowshin 33
-rw-rw-r-- 1 nowshin nowshin 30
-rw-rw-r-- 1 nowshin nowshin 40
-rw-rw-r-- 1 nowshin nowshin 40
-rw-rw-r-- 1 nowshin nowshin 4096
drwxrwxrwx 2 nowshin nowshin 4096
drwxrwxrwx 5 nowshin nowshin 4096
drwxrwxr-x 5 nowshin nowshin 4096
-rw-rw-r-- 1 nowshin nowshin 4096
                                                                                                                                                                                                                                                                                                                                                               29 15:18 demo_file1.txt
29 15:34 demo_file2.txt
29 15:11 demo_file.txt
                                                                                                                                                                                                                                                                                                                                                          29 15:34 demo_file.
29 16:23 demo.txt
17 17:09 Desktop
5 16:21 Documents
17 17:09 Downloads
5 16:59 file
5 20:16 file23
5 15:11 file.sh
5 16:03 fourth.sh
5 20:46 good.txt
5 20:46 grill.txt
5 20:46 grtly.txt
5 20:36 htly.txt
5 17:12 lab.txt
17 17:09 Music
22 15:26 music
22 15:24 new1.
29 16:28 new1.txt
17 17:09 Pictures
17 17:09 Pictures
                                                                                                                                                                                                                                                                                      জানু
ডিসেম্বর
                                                                                                                                                                                                                                                             96 1865

9 817

33 817

40 817

30 817

9 817
                                                                                                                                                                                                                                                                      o জানু
o জানু
o জানু
                                                                                                                                                                                                                                                                                      জানু
ডিসেম্বর
ডিসেম্বর
   drwxrwxr-x 5 nowshin nowshin 4096 জানু
-rw-rw-r-- 1 nowshin nowshin 12 ডিসেম্বর
drwxr-xr-x 2 nowshin nowshin 4096 ডিসেম্বর
drwxr-xr-x 2 nowshin nowshin 4096 ডিসেম্বর
drwxr-xr-x 1 nowshin nowshin 4096 ডিসেম্বর
-rw-rw-r-- 1 nowshin nowshin 4096 ডিসেম্বর
-rw-rw-r-- 1 nowshin nowshin 4096 ডিসেম্বর
-rw-rw-r-- 1 nowshin nowshin 0 জানু
drwxr-xr-x 2 nowshin nowshin 0 জানু
drwxr-xr-x 2 nowshin nowshin 4096 ডিসেম্বর
-rw-rw-r-- 1 nowshin nowshin 4096 ডিসেম্বর
-rw-rw-r-- 1 nowshin nowshin 4096 ডিসেম্বর
-rw-rw-r-- 1 nowshin nowshin 4096 ডিসেম্বর
drwxr-xr-x 2 nowshin nowshin 4096 ডিসেম্বর
drwxr-xr-x 2 nowshin nowshin 4096 ডিসেম্বর
drwxr-xr-x 1 nowshin nowshin 4096 ডিসেম্বর
drwxr-xr-x 2 nowshin nowshin 4096 ডিসেম্বর
                                                                                                                                                                                                                                                                                     জানু
ডিসেম্বর
ডিসেম্বর
ডিসেম্বর
ডিসেম্বর
ডিসেম্বর
ডিসেম্বর
                                                                                                                                                                                                                                                                                                                                                             29 16:27 new.txt
17 17:09 Pictures
17 17:09 Public
29 17:13 sample
5 15:42 second.s
                                                                                                                                                                                                                                                                                                                                                     28 22:08 snap
5 21:11 sum.sh
5 20:47 tax.txt
17 17:09 Template
5 16:01 third.sl
                                                                                                                                                                                                                                                                                                                                                     17 17:09 Vide
28 22:07 Work
                                                                                                                                                                                                                                                                                                                                                                      5 16:59 year2020
5 19:42 year2020.txt
                                                                                                                                                                                              ./sum.sh
          nowshin@Lenovoip320:~$
nowshin@Lenovoip320:~$
```

```
nowshin@Lenovoip320:~$ cat > sum.sh
i = 1
while [ $i -le 9 ]
do
  echo $i
  i=$(($i+1))
done
nowshin@Lenovoip320:~$ cat sum.sh
i = 1
while [ $i -le 9 ]
do
  echo $i
  i=$(($i+1))
done
nowshin@Lenovoip320:~$ ^C
nowshin@Lenovoip320:~$ chmod a+x sum.sh
nowshin@Lenovoip320:~$ ./sum.sh
./sum.sh: line 1: i: command not found
./sum.sh: line 2: [: -le: unary operator expected
```