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20p-0045

Section: Operating Systems BCS-4A

Lab Task: 1
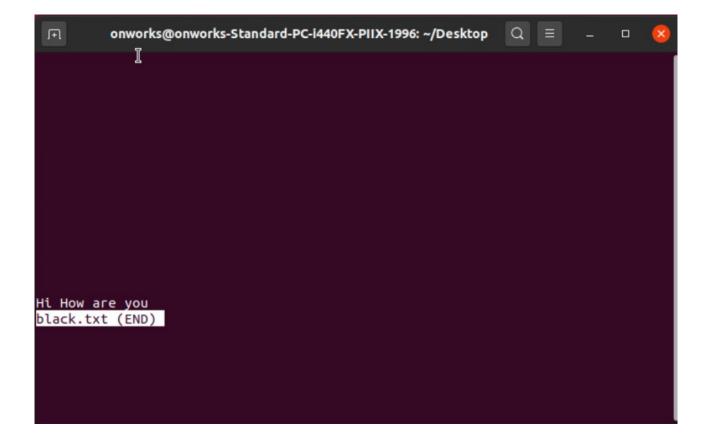-----------------------

"LS Command"


```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ ls
bin     dev     lib     libx32          mnt     root    snap        sys     var
boot    etc     lib32   lost+found      opt     run     srv         tmp
cdrom   home    lib64   media           proc    sbin    swapfile    usr
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$
```

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"MAN LS"

```
LS(1)                        User Commands                        LS(1)

NAME
        ls - list directory contents

SYNOPSIS
        ls [OPTION]... [FILE]...

DESCRIPTION
        List  information  about the FILEs (the current directory by default).
        Sort entries alphabetically if none of -cftuvSUX nor --sort is  speci-
        fied.

        Mandatory  arguments  to  long options are mandatory for short options
        too.

        -a, --all
                do not ignore entries starting with .

        -A, --almost-all
                do not list implied . and ..

Manual page ls(1) line 1 (press h for help or q to quit)
```

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PWD Command

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ pwd
/home/onworks/Desktop
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$
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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~/Desktop

Hi How are you
black.txt (END)
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ uname
Linux
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ uname -a
Linux onworks-Standard-PC-i440FX-PIIX-1996 5.4.0-54-generic #60-Ubuntu SMP Fri
Nov 6 10:37:59 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ uname -s
Linux
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ uname -n
onworks-Standard-PC-i440FX-PIIX-1996
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ uname -r
5.4.0-54-generic
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ hostname
onworks-Standard-PC-i440FX-PIIX-1996
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996: /

onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ ls
bin     dev     lib     libx32      mnt     root    snap        sys     var
boot    etc     lib32   lost+found  opt     run     srv         tmp
cdrom   home    lib64   media       proc    sbin    swapfile    usr
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ cd home
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/home$ cd ..
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ ls
bin     dev     lib     libx32      mnt     root    snap        sys     var
boot    etc     lib32   lost+found  opt     run     srv         tmp
cdrom   home    lib64   media       proc    sbin    swapfile    usr
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ cd home
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/home$ ls
onworks
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/home$ cd onworks
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
Desktop     Downloads   Pictures    snap        Videos
Documents   Music       Public      Templates
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cd Pictures
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Pictures$ cd /
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ ls
bin     dev     lib     libx32      mnt     root    snap        sys     var
boot    etc     lib32   lost+found  opt     run     srv         tmp
cdrom   home    lib64   media       proc    sbin    swapfile    usr
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mkdir Helloworld
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
Desktop     Downloads   Music       Public      Templates
Documents   Helloworld  Pictures    snap        Videos
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mkdir Helloworld
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
Desktop     Downloads   Music      Public   Templates
Documents   Helloworld  Pictures   snap     Videos
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ rmdir Helloworld
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ touch wow.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ nano wow.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ grep Adam wow.txt
Hi Adam
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cat wow.txt
Hi Adam
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ nano wow.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sort wow.txt
Ali is a good boy
Hi Adam
Where are you
Zone is near
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ head data.txt
    PPID      PID     PGID       SID TTY        TPGID STAT    UID    TIME COMMAND
       0        2        0         0 ?             -1 S         0    0:00 [kthreadd]
       2        3        0         0 ?             -1 I<        0    0:00  \_ [rcu_gp]
       2        4        0         0 ?             -1 I<        0    0:00  \_ [rcu_par_gp]
       2        5        0         0 ?             -1 I         0    0:01  \_ [kworker/0:0-mm_
percpu_wq]
       2        6        0         0 ?             -1 I<        0    0:00  \_ [kworker/0:0H-kb
lockd]
       2        7        0         0 ?             -1 I         0    0:00  \_ [kworker/u4:0-ev
ents_unbound]
       2        8        0         0 ?             -1 I<        0    0:00  \_ [mm_percpu_wq]
       2        9        0         0 ?             -1 S         0    0:00  \_ [ksoftirqd/0]
       2       10        0         0 ?             -1 I         0    0:19  \_ [rcu_sched]
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ tail data.txt
     903      910      903       903 ?             -1 Sl     1000    0:00  \_ /usr/libexec/ibu
s-dconf
     903      911      903       903 ?             -1 Sl     1000    0:00  \_ /usr/libexec/ibu
s-ui-gtk3
     903      912      903       903 ?             -1 Sl     1000    0:01  \_ /usr/libexec/ibu
s-extension-gtk3
     903     1063      903       903 ?             -1 Sl     1000    0:01  \_ /usr/libexec/ibu
s-engine-simple
       1      915      903       903 ?             -1 Sl     1000    0:00 /usr/libexec/ibus-x1
1 --kill-daemon
       1     1284     1284      1284 ?             -1 Ssl     121    0:00 /usr/libexec/colord
       1     1405     1405      1405 ?             -1 Ssl       0    0:00 /usr/libexec/fwupd/f
wupd
       1     2434     2434      2434 ?             -1 Ss        0    0:00 /bin/sh /usr/lib/apt
/apt.systemd.daily update
    2434     2442     2434      2434 ?             -1 S         0    0:00  \_ /bin/sh /usr/lib
/apt/apt.systemd.daily lock_is_held update
    2442     2522     2434      2434 ?             -1 Rl        0   21:20       \_ /usr/bin/pyt
hon3 /usr/bin/unattended-upgrade --download-only
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ stat -L data.txt
  File: data.txt
  Size: 17778          Blocks: 40        IO Block: 4096    regular file
Device: 805h/2053d     Inode: 1708642    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/ onworks)   Gid: ( 1000/ onworks)
Access: 2023-01-31 18:28:03.008000000 +0100
Modify: 2023-01-31 18:27:55.324000000 +0100
Change: 2023-01-31 18:27:55.324000000 +0100
 Birth: -
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ free KB
              total        used        free      shared  buff/cache   available
Mem:        2990612     1092824      742096        8052     1155692     1716760
Swap:       1435264           0     1435264
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ free byte
              total        used        free      shared  buff/cache   available
Mem:        2990612     1092796      742064        8052     1155752     1716772
Swap:       1435264           0     1435264
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ free GB
              total        used        free      shared  buff/cache   available
Mem:        2990612     1092796      742064        8052     1155752     1716772
Swap:       1435264           0     1435264
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ free MB
              total        used        free      shared  buff/cache   available
Mem:        2990612     1093048      741804        8052     1155760     1716520
Swap:       1435264           0     1435264
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ uptime
 18:32:21 up 28 min,  1 user,  load average: 1,11, 1,22, 1,06
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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top:

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ iwconfig
ens3      no wireless extensions.

lo        no wireless extensions.
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gzip data.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
' data.txt'      Desktop       Downloads    Pictures    snap        Videos
 data.txt.gz     Documents     Music        Public      Templates   wow.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gunzip data.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
' data.txt'      Desktop       Downloads    Pictures    snap        Videos
 data.txt        Documents     Music        Public      Templates   wow.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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PING:

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ping google.com
PING google.com (142.250.186.110) 56(84) bytes of data.
From _gateway (10.0.2.2) icmp_seq=1 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=2 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=3 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=4 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=5 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=6 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=7 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=8 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=9 Destination Net Unreachable
From _gateway (10.0.2.2) icmp_seq=10 Destination Net Unreachable
^C
--- google.com ping statistics ---
10 packets transmitted, 0 received, +10 errors, 100% packet loss, time 9167ms
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ nslookup google.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
Name:   google.com
Address: 142.250.186.110
Name:   google.com
Address: 2a00:1450:4001:829::200e

onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ps
    PID TTY          TIME CMD
   3478 pts/0    00:00:00 bash
   4265 pts/0    00:00:00 top
   4983 pts/0    00:00:00 ps
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ netstat
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ps -e
    PID TTY          TIME CMD
      1 ?        00:00:02 systemd
      2 ?        00:00:00 kthreadd
      3 ?        00:00:00 rcu_gp
      4 ?        00:00:00 rcu_par_gp
      5 ?        00:00:01 kworker/0:0-events
      6 ?        00:00:00 kworker/0:0H-kblockd
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ps -f
UID          PID    PPID  C STIME TTY          TIME CMD
onworks     3478    3467  0 18:08 pts/0    00:00:00 bash
onworks     4265    3478  0 18:21 pts/0    00:00:00 top
onworks     5015    3478  0 18:37 pts/0    00:00:00 ps -f
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ps -a
    PID TTY          TIME CMD
    649 tty2     00:00:16 Xorg
    814 tty2     00:00:00 gnome-session-b
   4063 pts/0    00:00:00 sudo
   4265 pts/0    00:00:00 top
   4842 pts/0    00:00:00 sudo
   5009 pts/0    00:00:00 ps
```

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```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ps
    PID TTY          TIME CMD
   3478 pts/0    00:00:00 bash
   4265 pts/0    00:00:00 top
   4983 pts/0    00:00:00 ps
```

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VIM EDITOR CONCAT:

```
vim abubkkar.txt
vim p20_0045.txt
```

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```
cat abubkkar.txt p20_0045.txt >> Personal_Info.txt
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  ```
  ~/Music$ cat abubkkar.txt
  ```

  ```
  abubakkar abdullah
  batch 20
  bcs-4a
  ```

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  ```
  ~/Music$ cat p20_0045.txt
  ```

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  ```
  p20_0045
  abdullahabubakkar425@gmail.com
  ```

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  ```
  ~/Music$ cat Personal_Info.txt
  ```

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  ```
  p20_0045
  abdullahabubakkar425@gmail.com
  abubakkar abdullah
  batch 20
  bcs-4a
  p20_0045
  abdullahabubakkar425@gmail.com
  ```

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