

Assignment 1

Command lines

```

kiit@BT-21052503: ~/Firstfile/Secondfile
kiit@BT-21052503:/mnt/c/WINDOWS/system32$ cd ~/
kiit@BT-21052503:~$ mkdir directory
kiit@BT-21052503:~$ mkdir firstfile
kiit@BT-21052503:~$ mkdir secondfile
kiit@BT-21052503:~$ dir
123y      Downloads  Pictures  Templates  directory  file1.txt.save.1  thinclient_drives
Desktop   Firstfile  Public    Thirdfile  file1.txt   firstfile         ubuntu
Documents Music      Secondfile Videos    file1.txt.save  secondfile
kiit@BT-21052503:~$ ls
123y      Downloads  Pictures  Templates  directory  file1.txt.save.1  thinclient_drives
Desktop   Firstfile  Public    Thirdfile  file1.txt   firstfile         ubuntu
Documents Music      Secondfile Videos    file1.txt.save  secondfile
kiit@BT-21052503:~$ ls -al
total 196
drwxr-xr-x 26 kiit kiit 4096 Jan 12 13:24 .
drwxr-xr-x  3 root root 4096 Nov 23 2021 ..
-rw-r--r--  1 kiit kiit  358 Nov 23 2021 .ICEauthority
-rw-r--r--  1 kiit kiit   61 Nov 23 2021 .Xauthority
-rw-r--r--  1 kiit kiit  422 Jan 12 13:23 .bash_history
-rw-r--r--  1 kiit kiit  220 Nov 23 2021 .bash_logout
-rw-r--r--  1 kiit kiit 3771 Nov 23 2021 .bashrc
drwxr-xr-x 10 kiit kiit 4096 Nov 23 2021 .cache
drwxr-xr-x  9 kiit kiit 4096 Nov 23 2021 .config
drwxr-xr-x  3 kiit kiit 4096 Nov 23 2021 .dbus
drwxr-xr-x  3 kiit kiit 4096 Nov 23 2021 .gnupg
drwxr-xr-x  2 kiit kiit 4096 Nov 23 2021 .landscape
drwxr-xr-x  3 kiit kiit 4096 Nov 23 2021 .local
-rw-r--r--  1 kiit kiit   0 Jan 12 12:26 .motd_shown
drwxr-xr-x  4 kiit kiit 4096 Nov 23 2021 .mozilla
-rw-r--r--  1 kiit kiit  807 Nov 23 2021 .profile
-rw-r--r--  1 kiit kiit   0 Nov 23 2021 .sudo_as_admin_successful
-rw-r--r--  1 kiit kiit 37746 Nov 23 2021 .xorgxrdp.10.log
-rw-r--r--  1 kiit kiit   14 Nov 23 2021 .xsession
-rw-r--r--  1 kiit kiit 11633 Nov 23 2021 .xsession-errors
drwxr-xr-x  2 kiit kiit 4096 Jan 12 13:18 123y
drwxr-xr-x  2 kiit kiit 4096 Nov 23 2021 Desktop
drwxr-xr-x  2 kiit kiit 4096 Nov 23 2021 Documents
drwxr-xr-x  2 kiit kiit 4096 Nov 23 2021 Downloads
drwxr-xr-x  2 kiit kiit 4096 Jan 12 13:21 Firstfile
drwxr-xr-x  2 kiit kiit 4096 Nov 23 2021 Music

```

```

kiit@BT-21052503: ~/Firstfile/Secondfile
drwxr-xr-x  2 kiit kiit  4096 Nov 23  2021 Music
drwxr-xr-x  2 kiit kiit  4096 Nov 23  2021 Pictures
drwxr-xr-x  2 kiit kiit  4096 Nov 23  2021 Public
drwxr-xr-x  2 kiit kiit  4096 Jan 12 13:21 Secondfile
drwxr-xr-x  2 kiit kiit  4096 Nov 23  2021 Templates
drwxr-xr-x  2 kiit kiit  4096 Jan 12 13:21 Thirdfile
drwxr-xr-x  2 kiit kiit  4096 Nov 23  2021 Videos
drwxr-xr-x  2 kiit kiit  4096 Jan 12 13:24 directory
-rw-r--r--  1 kiit kiit    75 Jan 12 13:10 file1.txt
-rw-r--r--  1 kiit kiit   76 Jan 12 13:13 file1.txt.save
-rw-r--r--  1 kiit kiit   76 Jan 12 13:13 file1.txt.save.1
drwxr-xr-x  2 kiit kiit  4096 Jan 12 13:24 firstfile
drwxr-xr-x  2 kiit kiit  4096 Jan 12 13:24 secondfile
drwxrwxr-t  2 kiit kiit  4096 Nov 23  2021 thinclient_drives
drwxr-xr-x  4 kiit kiit  4096 Jan 12 12:58 ubuntu
kiit@BT-21052503:~$ ls -R
.:
123y      Downloads Pictures  Templates directory  file1.txt.save.1 thinclient_drives
Desktop  Firstfile Public    Thirdfile file1.txt  firstfile
Documents Music    Secondfile Videos   file1.txt.save secondfile

./123y:

./Desktop:

./Documents:

./Downloads:

./Firstfile:

./Music:

./Pictures:

./Public:

./Secondfile:

./Templates:

```

kiit@BT-21052503: ~/Firstfile/Secondfile

./Thirdfile:

./Videos:

./directory:

./firstfile:

./secondfile:

./thinclient_drives:

./ubuntu:

firstfile secondfile

./ubuntu/firstfile:

./ubuntu/secondfile:

kiit@BT-21052503:~\$ ls -a

.	.bashrc	.local	.xsession	Firstfile	Thirdfile	firstfile
..	.cache	.motd_shown	.xsession-errors	Music	Videos	secondfile
.ICEauthority	.config	.mozilla	123y	Pictures	directory	thinclient_drives
.Xauthority	.dbus	.profile	Desktop	Public	file1.txt	ubuntu
.bash_history	.gnupg	.sudo_as_admin_successful	Documents	Secondfile	file1.txt.save	
.bash_logout	.landscape	.xorgxrdp.10.log	Downloads	Templates	file1.txt.save.1	

kiit@BT-21052503:~\$ cd firstfile

kiit@BT-21052503:~/firstfile\$ cat new.txt

cat: new.txt: No such file or directory

kiit@BT-21052503:~/firstfile\$ cat> new.txt

This is a new file.

Hello world.

This is third line.

This OS is kinda cool.

I miss my old laptop

kiit@BT-21052503:~/firstfile\$ cat

firstfile

firstfile

kiit@BT-21052503:~/firstfile\$ echo > new.txt

kiit@BT-21052503:~/firstfile\$ echo "this is using echo cmd" > new.txt

kiit@BT-21052503:~/firstfile\$ echo > new.txt

kiit@BT-21052503:~/firstfile\$ echo "this is using echo cmd" > new.txt

kiit@BT-21052503:~/firstfile\$ vi new.txt

kiit@BT-21052503:~/firstfile\$ vi new.txt

kiit@BT-21052503:~/firstfile\$ echo "This is overwriting in a file" >new.txt

kiit@BT-21052503:~/firstfile\$ cat new.txt > output.txt

kiit@BT-21052503:~/firstfile\$ cat output.txt

This is overwriting in a file

kiit@BT-21052503:~/firstfile\$ rm output.txt

kiit@BT-21052503:~/firstfile\$ ls

new.txt

kiit@BT-21052503:~/firstfile\$ cd ~

kiit@BT-21052503:~\$ dir

123y	Downloads	Pictures	Templates	directory	file1.txt.save.1	thinclient_drives
Desktop	Firstfile	Public	Thirdfile	file1.txt	firstfile	ubuntu
Documents	Music	Secondfile	Videos	file1.txt.save	secondfile	

kiit@BT-21052503:~\$ rmdir 123y

kiit@BT-21052503:~\$ dir

Desktop	Firstfile	Public	Thirdfile	file1.txt	firstfile	ubuntu
Documents	Music	Secondfile	Videos	file1.txt.save	secondfile	
Downloads	Pictures	Templates	directory	file1.txt.save.1	thinclient_drives	

kiit@BT-21052503:~\$ cp new.txt secondfile

cp: cannot stat 'new.txt': No such file or directory

kiit@BT-21052503:~\$ cp file1.txt ubuntu

kiit@BT-21052503:~\$ dir

Desktop	Firstfile	Public	Thirdfile	file1.txt	firstfile	ubuntu
Documents	Music	Secondfile	Videos	file1.txt.save	secondfile	

kiit@BT-21052503:~/Firstfile/Secondfile\$

kiit@BT-21052503:~\$ cp firstfile -r Firstfile

```

kiit@BT-21052503:~$ cp firstfile -r Firstfile
kiit@BT-21052503:~$ cd Firstfile
kiit@BT-21052503:~/Firstfile$ ls
firstfile
kiit@BT-21052503:~/Firstfile$ cd /
-bash: cd/: No such file or directory
kiit@BT-21052503:~/Firstfile$ cd /
kiit@BT-21052503:/$ cd Thirdfile
-bash: cd: Thirdfile: No such file or directory
kiit@BT-21052503:/$ cd ~
kiit@BT-21052503:~$ cd Thirdfile
kiit@BT-21052503:~/Thirdfile$ cd ~
kiit@BT-21052503:~$ mv Thirdfile Secondfile
kiit@BT-21052503:~$ mv Secondfile Firstfile
kiit@BT-21052503:~$ ls
Desktop  Downloads  Music      Public     Videos    file1.txt    file1.txt.save.1  secondfile  ubuntu
Documents Firstfile  Pictures   Templates  directory  file1.txt.save  firstfile         thinclient_drives
kiit@BT-21052503:~$ cd Firstfile
kiit@BT-21052503:~/Firstfile$ ls
Secondfile  firstfile
kiit@BT-21052503:~/Firstfile$ cd Secondfile
kiit@BT-21052503:~/Firstfile/Secondfile$ ls
Thirdfile
kiit@BT-21052503:~/Firstfile/Secondfile$

```

```

Thirdfile
kiit@BT-21052503:~/Firstfile/Secondfile$ uname
Linux
kiit@BT-21052503:~/Firstfile/Secondfile$ uname -a
Linux BT-21052503 5.10.102.1-microsoft-standard-WSL2 #1 SMP Wed Mar 2 00:30:59 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
kiit@BT-21052503:~/Firstfile/Secondfile$ history
1  rm ~/.bash_history
2  cat > first
3  dir /p
4  cd..
5  cd
6  cd ~
7  mkdir ~
8  mkdir ubuntu
9  cd ubuntu
10 pwd
11 dir
12 ls
13 mkdir firstfile
14 mkdir secondfile
15 dir
16 ls
17 ls -al
18 ls -R
19 ls -a
20 cd
21 cd/
22 cd /
23 cd ~
24 touch file1.txt
25 ls -al
26 ls
27 stat file1.txt
28 cat file1.txt
29 nano file1.txt
30 mkdir ubuntu
31 mkdir oslab

```

```
29 nano file1.txt
30 mkdir ubuntu
31 mkdir oslab
32 pws
33 pwd
34 cd kiit
35 cd 21052503
36 ls
37 pwd
38 mkdir 123t
39 cd ..
40 mkdir 123t
41 cd ~
42 mkdir 123y
43 mkdir Firstfile
44 mkdir Secondfile
45 mkdir Thirdfile
46 ls
47 ls -a
48 ls -al
49 ls -R
50 pwd
51 dir
52 cd ~/
53 mkdir directory
54 mkdir firstfile
55 mkdir secondfile
56 dir
57 ls
58 ls -al
59 ls -R
60 ls -a
61 cd firstfile
62 cat new.txt
63 cat> new.txt
64 cat
65 echo > new.txt
66 echo "this is using echo cmd" > new.txt
67 vi new.txt
68 echo "This is overwriting in a file" >new.txt
```

```
69 cat new.txt > output.txt
70 cat output.txt
71 rm output.txt
72 ls
73 cd ~
74 dir
75 rmdir 123y
76 dir
77 cp new.txt secondfile
78 cp file1.txt ubuntu
79 dir
80 cp firstfile -r Firstfile
81 cd Firstfile
82 ls
83 cd/
84 cd /
85 cd Thirdfile
86 cd ~
87 cd Thirdfile
88 cd ~
89 mv Thirdfile Secondfile
90 mv Secondfile Firstfile
91 ls
92 cd Firstfile
93 ls
94 cd Secondfile
95 ls
96 uname
97 uname -a
98 history
kiit@BT-21052503:~/Firstfile/Secondfile$
```

```
Documents Firstfile Pictures Templates directory file
kiit@BT-21052503:~$ cal
      January 2023
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7
 8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

kiit@BT-21052503:~$ chkconfig --list
chkconfig: command not found
kiit@BT-21052503:~$ cvs checkout file1.txt

Command 'cvs' not found, but can be installed with:

sudo apt install cvs

kiit@BT-21052503:~$ sudo apt install cvs
[sudo] password for kiit:

Sorry, try again.
[sudo] password for kiit:
Sorry, try again.
[sudo] password for kiit:

sudo: 3 incorrect password attempts
kiit@BT-21052503:~$
kiit@BT-21052503:~$
kiit@BT-21052503:~$
kiit@BT-21052503:~$ dstat --list

Command 'dstat' not found, but can be installed with:

sudo apt install dstat # version 0.7.4-6, or
kiit@BT-21052503:~$
```

```

kiit@BT-21052503: /mnt/c/WINDOWS/system32$ cd ~
kiit@BT-21052503: ~$ cd Firstfile
kiit@BT-21052503: ~/Firstfile$ find Seconfile
find: 'Seconfile': No such file or directory
kiit@BT-21052503: ~/Firstfile$ find Secondfile
Secondfile
Secondfile/Thirdfile
kiit@BT-21052503: ~/Firstfile$ locate Thirdfile

Command 'locate' not found, but can be installed with:

sudo apt install mlocate

kiit@BT-21052503: ~/Firstfile$ cd ~
kiit@BT-21052503: ~$ ls
Desktop  Downloads  Music      Public     Videos   file1.txt  file1.txt.save.1  secondfile  ubuntu
Documents Firstfile  Pictures  Templates  directory file1.txt.save  firstfile         thinclient_drives
kiit@BT-21052503: ~$ cd firstfile
kiit@BT-21052503: ~/firstfile$ ls
new.txt
kiit@BT-21052503: ~/firstfile$ cat new.txt | grep 20
kiit@BT-21052503: ~/firstfile$ cat new.txt | grep 1
kiit@BT-21052503: ~/firstfile$ man cat
kiit@BT-21052503: ~/firstfile$ ps
  PID TTY          TIME CMD
    9 pts/0    00:00:00 bash
   55 pts/0    00:00:00 ps
kiit@BT-21052503: ~/firstfile$ cd ~
kiit@BT-21052503: ~$ gzip file1.txt
kiit@BT-21052503: ~$ ls
Desktop  Downloads  Music      Public     Videos   file1.txt.gz  file1.txt.save.1  secondfile  ubuntu
Documents Firstfile  Pictures  Templates  directory  file1.txt.save  firstfile         thinclient_drives
kiit@BT-21052503: ~$ gunzip file1.txt
kiit@BT-21052503: ~$ ls
Desktop  Downloads  Music      Public     Videos   file1.txt  file1.txt.save.1  secondfile  ubuntu
Documents Firstfile  Pictures  Templates  directory  file1.txt.save  firstfile         thinclient_drives
kiit@BT-21052503: ~$ host
Usage: host [-aCdilrTvVw] [-c class] [-N ndots] [-t type] [-W time]
           [-R number] [-m flag] hostname [server]
-a is equivalent to -v -t ANY

```

```

-a is equivalent to -v -t ANY
-A is like -a but omits RRSIG, NSEC, NSEC3
-c specifies query class for non-IN data
-C compares SOA records on authoritative nameservers
-d is equivalent to -v
-l lists all hosts in a domain, using AXFR
-m set memory debugging flag (trace|record|usage)
-N changes the number of dots allowed before root lookup is done
-r disables recursive processing
-R specifies number of retries for UDP packets
-s a SERVFAIL response should stop query
-t specifies the query type
-T enables TCP/IP mode
-U enables UDP mode
-v enables verbose output
-V print version number and exit
-w specifies to wait forever for a reply
-W specifies how long to wait for a reply
-4 use IPv4 query transport only
-6 use IPv6 query transport only
kiit@BT-21052503: ~$ hostname
BT-21052503
kiit@BT-21052503: ~$ ping google.com
PING google.com (142.250.182.14) 56(84) bytes of data.
64 bytes from maa05s18-in-f14.1e100.net (142.250.182.14): icmp_seq=1 ttl=115 time=48.2 ms
64 bytes from maa05s18-in-f14.1e100.net (142.250.182.14): icmp_seq=2 ttl=115 time=51.0 ms

```

```

kiit@BT-21052503:~$ lsblk
NAME MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
sda   8:0    0  256G  0 disk
sdb   8:16   0 339.8M  1 disk
sdc   8:32   0  256G  0 disk /
kiit@BT-21052503:~$ fdisk
fdisk: bad usage
Try 'fdisk --help' for more information.
kiit@BT-21052503:~$ lshw
WARNING: you should run this program as super-user.
bt-21052503
  description: Computer
  width: 64 bits
  capabilities: smp vsyscall32
*-core
  description: Motherboard
  physical id: 0
*-memory
  description: System memory
  physical id: 1
  size: 7936MiB
*-cpu
  product: AMD Ryzen 7 5700U with Radeon Graphics
  vendor: Advanced Micro Devices [AMD]
  physical id: 2
  bus info: cpu@0
  width: 64 bits

```

```

kiit@BT-21052503:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
   inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: bond0: <BROADCAST,MULTICAST,MASTER> mtu 1500 qdisc noop state DOWN group default qlen 1000
   link/ether e6:e6:90:52:70:a1 brd ff:ff:ff:ff:ff:ff
3: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
   link/ether 32:75:d4:58:f5:e2 brd ff:ff:ff:ff:ff:ff
4: tunl0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
   link/ipip 0.0.0.0 brd 0.0.0.0
5: sit0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN group default qlen 1000
   link/sit 0.0.0.0 brd 0.0.0.0
6: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
   link/ether 00:15:5d:de:1d:52 brd ff:ff:ff:ff:ff:ff
   inet 172.17.248.178/20 brd 172.17.255.255 scope global eth0
       valid_lft forever preferred_lft forever
   inet6 fe80::215:5dff:fede:1d52/64 scope link
       valid_lft forever preferred_lft forever

```



```
kiit@BT-21052503:~$ date
```

```
Thu Jan 12 21:06:48 IST 2023
```

```
kiit@BT-21052503:~$ time
```

```
real    0m0.000s
```

```
user    0m0.000s
```

```
sys     0m0.000s
```

```
kiit@BT-21052503:~$ TZ=GMT date
```

```
Thu Jan 12 15:37:32 GMT 2023
```

```
kiit@BT-21052503:~$ TZ=IST
```

```
kiit@BT-21052503:~$ TZ=IST date
```

```
Thu Jan 12 15:38:06 IST 2023
```

```
kiit@BT-21052503:~$ -d "1997-09-01"
```

```
-d: command not found
```

```
kiit@BT-21052503:~$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/sdc	263174212	2556240	247179816	2%	/
none	3904148	72	3904076	1%	/mnt/wslg
none	3904148	4	3904144	1%	/mnt/wsl
tools	498799612	273674556	225125056	55%	/init
none	3901720	0	3901720	0%	/dev
none	3904148	0	3904148	0%	/run
none	3904148	0	3904148	0%	/run/lock
none	3904148	0	3904148	0%	/run/shm
none	3904148	0	3904148	0%	/run/user
tmpfs	3904148	0	3904148	0%	/sys/fs/cgroup
drivers	498799612	273674556	225125056	55%	/usr/lib/wsl/drivers
lib	498799612	273674556	225125056	55%	/usr/lib/wsl/lib
none	3904148	76	3904072	1%	/mnt/wslg/versions.txt
none	3904148	76	3904072	1%	/mnt/wslg/doc
drvfs	498799612	273674556	225125056	55%	/mnt/c

```
kiit@BT-21052503:~$ free
```

	total	used	free	shared	buff/cache	available
Mem:	7808296	316364	7346428	324	145504	7287932
Swap:	2097152	0	2097152			

```
kiit@BT-21052503:~$ free
```

	total	used	free	shared	buff/cache	available
Mem:	7808296	316364	7346428	324	145504	7287932
Swap:	2097152	0	2097152			

```
kiit@BT-21052503:~$ uptime
```

```
21:11:15 up 2:42, 0 users, load average: 0.00, 0.00, 0.00
```

```
kiit@BT-21052503:~$ sudo i
```

```
[sudo] password for kiit:
```

```
Sorry, try again.
```

```
[sudo] password for kiit:
```

```
sudo: 1 incorrect password attempt
```

```
kiit@BT-21052503:~$ help
```

```
GNU bash, version 5.0.17(1)-release (x86_64-pc-linux-gnu)
```

```
These shell commands are defined internally. Type `help' to see this list.
```

```
Type `help name' to find out more about the function `name'.
```

```
Use `info bash' to find out more about the shell in general.
```

```
Use `man -k' or `info' to find out more about commands not in this list.
```