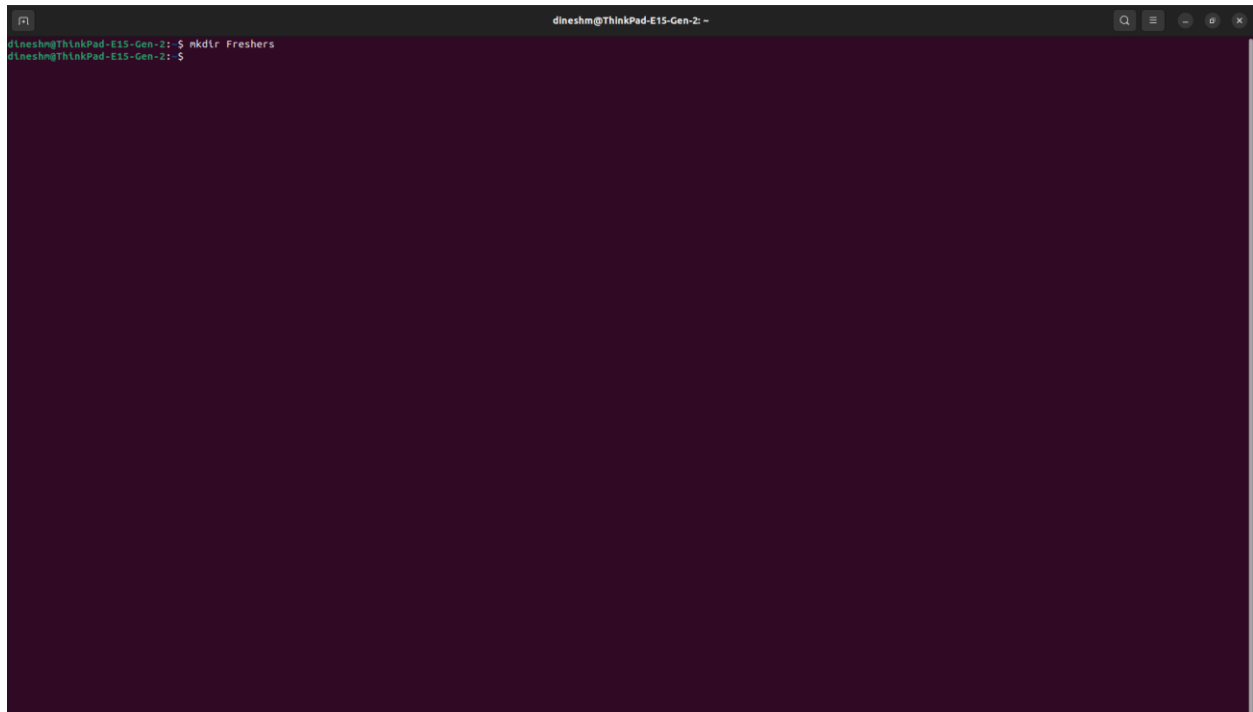


1.

A terminal window with a dark purple background. The title bar at the top reads "dineshm@ThinkPad-E15-Gen-2 -". The terminal shows a prompt "dineshm@ThinkPad-E15-Gen-2: \$" followed by the command "mkdlr Freshers" and another prompt "dineshm@ThinkPad-E15-Gen-2: \$".

```
dineshm@ThinkPad-E15-Gen-2: $ mkdlr Freshers
dineshm@ThinkPad-E15-Gen-2: $
```

2.

```
dineshm@ThinkPad-E15-Gen-2: ~  
dineshm@ThinkPad-E15-Gen-2: ~$ ls Freshers/  
dineshm@ThinkPad-E15-Gen-2: ~$ mkdir Freshers/Sep-03 Freshers/Sep-04  
dineshm@ThinkPad-E15-Gen-2: ~$
```

3.

```
dineshm@ThinkPad-E15-Gen-2: ~  
dineshm@ThinkPad-E15-Gen-2: ~$ touch Freshers/Sep-03/linux-cnds  
dineshm@ThinkPad-E15-Gen-2: ~$
```

4.


```
dineshm@ThinkPad-E15-Gen-2: ~  
dineshm@ThinkPad-E15-Gen-2: $ mv Freshers/Sep-03 Freshers/Sep-03-2024  
dineshm@ThinkPad-E15-Gen-2: $ mv Freshers/Sep-04 Freshers/Sep-04-2024  
dineshm@ThinkPad-E15-Gen-2: $ ls Freshers  
Sep-03-2024  Sep-04-2024  
dineshm@ThinkPad-E15-Gen-2: $
```

6.

```
dineshm@ThinkPad-E15-Gen-2: ~  
dineshm@ThinkPad-E15-Gen-2: $ cp Freshers/Sep-03-2024/linux-cmds Freshers/Sep-04-2024/  
dineshm@ThinkPad-E15-Gen-2: $ ls Freshers/Sep-04-2024/  
linux-cmds  
dineshm@ThinkPad-E15-Gen-2: $
```

7.

```
dineshm@ThinkPad-E15-Gen-2: ~/Freshers/Sep-03-2024
dineshm@ThinkPad-E15-Gen-2:~/Freshers/Sep-03-2024$ pwd
/home/dineshm/Freshers/Sep-03-2024
dineshm@ThinkPad-E15-Gen-2:~/Freshers/Sep-03-2024$
```

8.

```
dineshm@ThinkPad-E15-Gen-2: ~/Freshers/Sep-03-2024
dineshm@ThinkPad-E15-Gen-2:~/Freshers/Sep-03-2024$ grep "linux" linux-cmds -t
linux is one of the most popular and widely used
anyone can the source code of linux.
dineshm@ThinkPad-E15-Gen-2:~/Freshers/Sep-03-2024$
```

9.

```
dineshm@ThinkPad-E15-Gen-2: ~/Freshers/Sep-03-2024$ top
```

```
dineshm@ThinkPad-E15-Gen-2: ~/Freshers/Sep-03-2024$ top - 18:17:23 up 37 min, 1 user, load average: 0.27, 0.26, 0.32
Tasks: 312 total, 1 running, 311 sleeping, 0 stopped, 0 zombie
%cpu(s): 0.5 us, 1.4 sy, 0.0 ni, 98.1 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 15208.2 total, 11413.2 free, 2248.0 used, 1547.1 buff/cache
MiB Swap: 2048.0 total, 2048.0 free, 0.0 used, 12568.6 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR   S  %CPU  %MEM     TIME+ COMMAND
 3343 dineshm   20   0 13352  4224  3328  R   6.2   0.0   0:00.02 top
    1 root      20   0 166716 11188  7988  S   0.0   0.1   0:01.75 systemd
    2 root      20   0      0      0      0  S   0.0   0.0   0:00.00 kthreadd
    3 root      20   0      0      0      0  S   0.0   0.0   0:00.00 pool_workqueue_release
    4 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/R-rcu_g
    5 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/R-rcu_p
    6 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/R-slub
    7 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/R-netns
    9 root      20   0      0      0      0  I   0.0   0.0   0:00.00 kworker/0:1-events_freezable
   10 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
   12 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/R-mm_pe
   13 root      20   0      0      0      0  I   0.0   0.0   0:00.00 rcu_tasks_kthread
   14 root      20   0      0      0      0  I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   15 root      20   0      0      0      0  I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
   16 root      20   0      0      0      0  S   0.0   0.0   0:00.04 ksoftirqd/0
   17 root      20   0      0      0      0  I   0.0   0.0   0:02.22 rcu_preempt
   18 root      rt    0      0      0      0  S   0.0   0.0   0:00.02 migration/0
   19 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/0
   20 root      20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/0
   21 root      20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/2
   22 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/2
   23 root      rt    0      0      0      0  S   0.0   0.0   0:00.26 migration/2
   24 root      20   0      0      0      0  S   0.0   0.0   0:00.01 ksoftirqd/2
   26 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri
   27 root      20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/4
   28 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/4
   29 root      rt    0      0      0      0  S   0.0   0.0   0:00.26 migration/4
   30 root      20   0      0      0      0  S   0.0   0.0   0:00.01 ksoftirqd/4
   32 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/4:0H-events_highpri
   33 root      20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/6
   34 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/6
   35 root      rt    0      0      0      0  S   0.0   0.0   0:00.26 migration/6
   36 root      20   0      0      0      0  S   0.0   0.0   0:00.01 ksoftirqd/6
   37 root      20   0      0      0      0  I   0.0   0.0   0:00.15 kworker/6:0-mm_percpu_wq
   38 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/6:0H-events_highpri
   39 root      20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/8
   40 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/8
   41 root      rt    0      0      0      0  S   0.0   0.0   0:00.26 migration/8
   42 root      20   0      0      0      0  S   0.0   0.0   0:00.01 ksoftirqd/8
   44 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/8:0H-events_highpri
   45 root      20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/10
   46 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/10
   47 root      rt    0      0      0      0  S   0.0   0.0   0:00.26 migration/10
   48 root      20   0      0      0      0  S   0.0   0.0   0:00.01 ksoftirqd/10
   50 root      0 -20   0      0      0  I   0.0   0.0   0:00.00 kworker/10:0H-events_highpri
   51 root      20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/1
   52 root     -51   0      0      0      0  S   0.0   0.0   0:00.00 idle_inject/1
```

```
dineshm@ThinkPad-E15-Gen-2: ~/Freshers
dineshm@ThinkPad-E15-Gen-2:~/Freshers$ locate linux-cmds
/home/dineshm/Freshers/Sep-03-2024/linux-cmds
/home/dineshm/Freshers/Sep-04-2024/linux-cmds
dineshm@ThinkPad-E15-Gen-2:~/Freshers$
```

11.

```
dineshm@ThinkPad-E15-Gen-2: ~/Freshers
dineshm@ThinkPad-E15-Gen-2:~/Freshers$ date
Tuesday 03 September 2024 06:27:15 PM IST
dineshm@ThinkPad-E15-Gen-2:~/Freshers$
```

12.

```
dineshm@ThinkPad-E15-Gen-2: ~$ ls Freshers -R
Freshers:
Sep-03-2024 Sep-04-2024

Freshers/Sep-03-2024:
Linux-cncls

Freshers/Sep-04-2024:
Linux-cncls
dineshm@ThinkPad-E15-Gen-2: ~$
```

13.

```
dineshm@ThinkPad-E15-Gen-2: ~$ ip address show
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: enp2s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc fq_codel state DOWN group default qlen 1000
    link/ether 88:a4:c2:25:3c:e0 brd ff:ff:ff:ff:ff:ff
3: wlp3s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 4c:d5:77:79:b0:bd brd ff:ff:ff:ff:ff:ff
    inet 10.0.4.85/24 brd 10.0.4.255 scope global dynamic noprefixroute wlp3s0
        valid_lft 4005sec preferred_lft 4005sec
    inet6 fe80::3e59:007e:282:94c6/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
dineshm@ThinkPad-E15-Gen-2: ~$
```

14.


```
dineshm@ThinkPad-E15-Gen-2: ~$ ping knackforge.com -c 5
PING knackforge.com (54.240.162.52): 56(84) bytes of data:
64 bytes from server-54-240-162-52.hyd57.r.cloudfront.net (54.240.162.52): icmp_seq=1 ttl=248 time=99.6 ms
64 bytes from server-54-240-162-52.hyd57.r.cloudfront.net (54.240.162.52): icmp_seq=2 ttl=248 time=20.7 ms
64 bytes from server-54-240-162-52.hyd57.r.cloudfront.net (54.240.162.52): icmp_seq=3 ttl=248 time=45.7 ms
64 bytes from server-54-240-162-52.hyd57.r.cloudfront.net (54.240.162.52): icmp_seq=4 ttl=248 time=17.4 ms
64 bytes from server-54-240-162-52.hyd57.r.cloudfront.net (54.240.162.52): icmp_seq=5 ttl=248 time=22.6 ms

--- knackforge.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4007ms
rtt min/avg/max/mdev = 17.382/41.197/99.636/30.888 ms
dineshm@ThinkPad-E15-Gen-2: ~$
```

15.

```
dineshm@ThinkPad-E15-Gen-2: ~$ du Freshers/ -sh
20K    Freshers/
dineshm@ThinkPad-E15-Gen-2: ~$
```