

## Experiment No. 7

**Aim:** Configure LAN and use communication and networking commands: **finger**, **talk**, **mesg**, **mailx**, **pine**, **telnet**, **ftp**. Resolving of IP addresses.

### 1. finger command:

- Installing finger command:

```
manish28@ubuntu:~$ sudo apt install finger
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  finger
0 upgraded, 1 newly installed, 0 to remove and 136 not upgraded.
Need to get 16.9 kB of archives.
After this operation, 51.2 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu focal/universe amd64 finger amd64 0.17-17 [16.9 kB]
Fetched 16.9 kB in 22s (766 B/s)
Selecting previously unselected package finger.
(Reading database ... 160232 files and directories currently installed.)
Preparing to unpack .../finger_0.17-17_amd64.deb ...
Unpacking finger (0.17-17) ...
Setting up finger (0.17-17) ...
Processing triggers for man-db (2.9.1-1) ...
manish28@ubuntu:~$
```

- To finger and get details of user:

```
manish28@ubuntu:~$ finger manish28
Login: manish28                                Name: Manish Jadhav
Directory: /home/manish28                      Shell: /bin/bash
On since Wed May 10 01:35 (PDT) on :0 from :0 (messages off)
New mail received Mon May  8 08:05 2023 (PDT)
      Unread since Mon May  8 07:31 2023 (PDT)
No Plan.
manish28@ubuntu:~$
```

- To get idle status and login details of a user:

```
manish28@ubuntu:~$ finger -s manish28
Login      Name      Tty      Idle    Login Time   Office      Office Phone
manish28   Manish Jadhav *:0      May 10 01:35 (:0)
```

- To avoid printing PGP key, plan and project details:

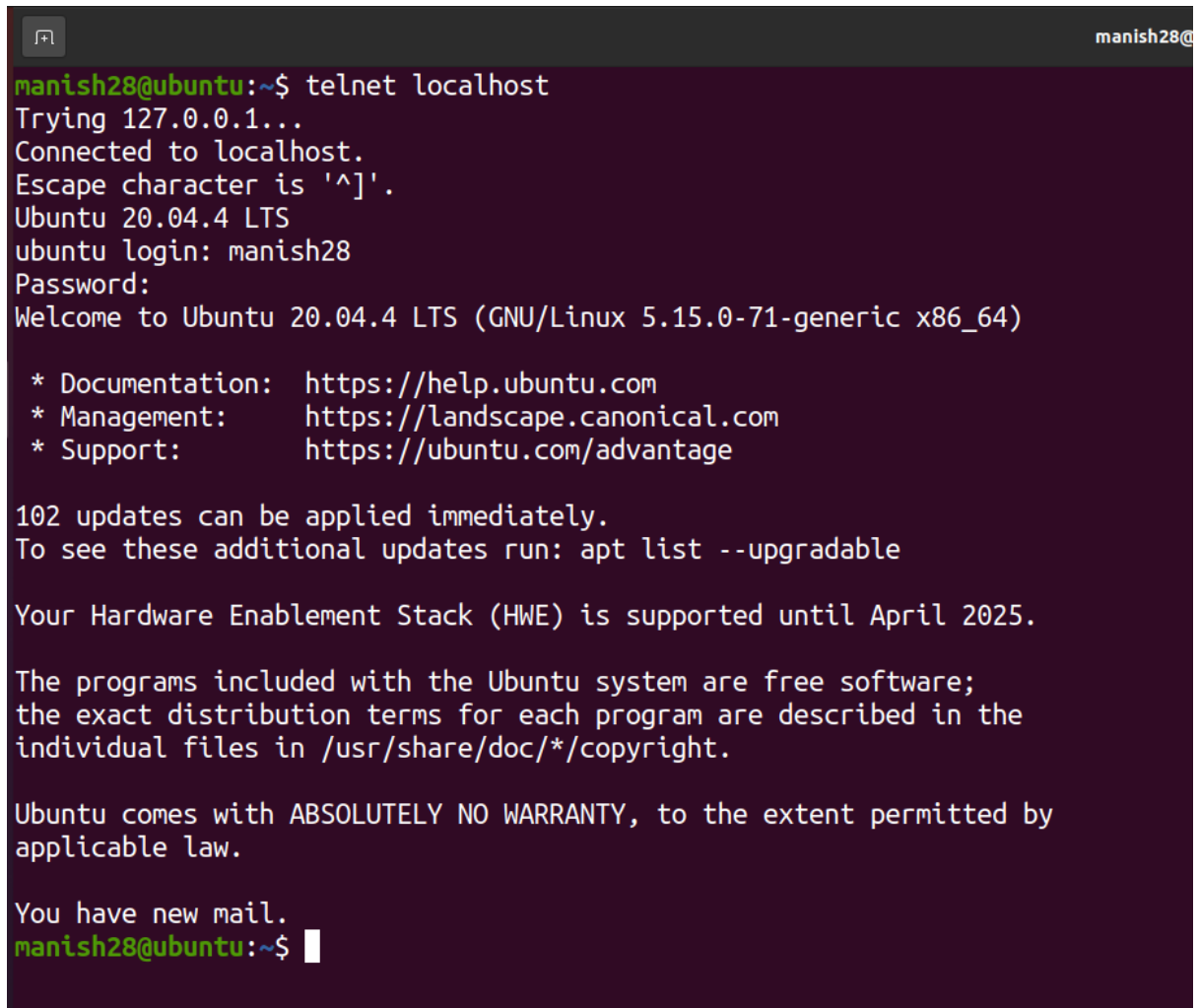
```
manish28@ubuntu:~$ finger -p manish28
Login: manish28                      Name: Manish Jadhav
Directory: /home/manish28           Shell: /bin/bash
On since Wed May 10 01:35 (PDT) on :0 from :0 (messages off)
New mail received Mon May 8 08:05 2023 (PDT)
Unread since Mon May 8 07:31 2023 (PDT)
```

- To create a plan for user:

```
manish28@ubuntu:~$ echo "Plan details" > ~/.plan
manish28@ubuntu:~$ finger manish28
Login: manish28                      Name: Manish Jadhav
Directory: /home/manish28           Shell: /bin/bash
On since Thu May 11 02:15 (PDT) on :0 from :0 (messages off)
New mail received Wed May 10 12:48 2023 (PDT)
Unread since Mon May 8 07:31 2023 (PDT)
Plan:
Plan details
```

## 2. Telnet command:

- Connecting to localnet server:



```
manish28@ubuntu:~$ telnet localhost
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Ubuntu 20.04.4 LTS
ubuntu login: manish28
Password:
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.15.0-71-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

102 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

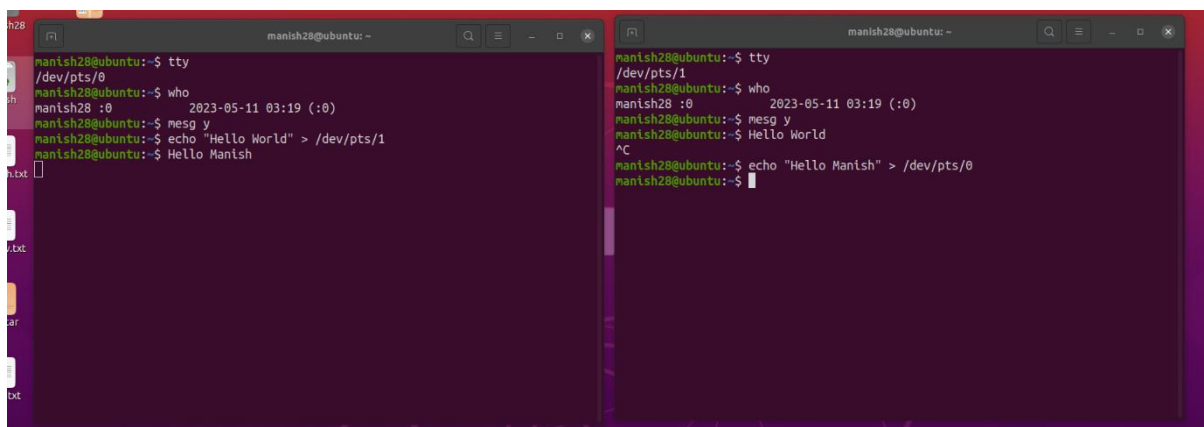
Your Hardware Enablement Stack (HWE) is supported until April 2025.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

You have new mail.
manish28@ubuntu:~$
```

## 3. mesg command:



```
manish28@ubuntu:~$ tty
/dev/pts/0
manish28@ubuntu:~$ who
manish28 :0      2023-05-11 03:19 (:0)
manish28@ubuntu:~$ mesg y
manish28@ubuntu:~$ echo "Hello World" > /dev/pts/1
manish28@ubuntu:~$ Hello Manish

manish28@ubuntu:~$ tty
/dev/pts/1
manish28@ubuntu:~$ who
manish28 :0      2023-05-11 03:19 (:0)
manish28@ubuntu:~$ mesg y
manish28@ubuntu:~$ Hello World
^C
manish28@ubuntu:~$ echo "Hello Manish" > /dev/pts/0
manish28@ubuntu:~$
```

#### 4. Resolving of IP address:

```

manish28@ubuntu:~$ nslookup geeksforgeek.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   geeksforgeek.com
Address: 103.224.182.253
Name:   geeksforgeek.com
Address: 64:ff9b::67e0:b6fd

manish28@ubuntu:~$ nslookup facebook.com
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
Name:   facebook.com
Address: 31.13.79.35
Name:   facebook.com
Address: 2a03:2880:f12f:183:face:b00c:0:25de

manish28@ubuntu:~$ █

```

Practical Performance (4)	Writeup & Oral (4)	Attendance (2)	Total (10)