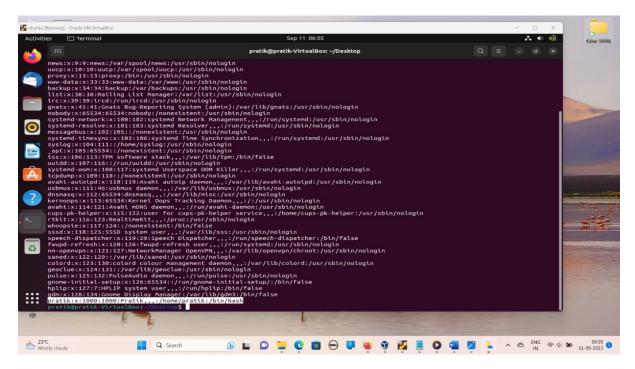
Ans=

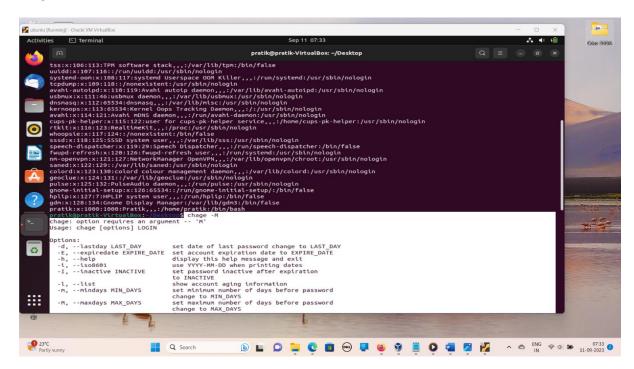


The '/etc/passwd' file is a file system in Linux operating systems. It stores essential user account information for each user on the system. Each line in the file represents several data which is following:

- 1) Username :- 'pratik' The name of the user.
- 2) Encrypted password :- which is denoted by 'x'.
- 3) User ID (UID) :- 1000 a numerical identifier for the user.
- 4) GID: 1000 a numerical identifier for the group.
- 5) User Info: 'Pratik,,,' has additional user information.
- 6) Home Directory :- /home/pratik
- 7) Shell:-/bin/bash is the default shell for the user.

Q2)

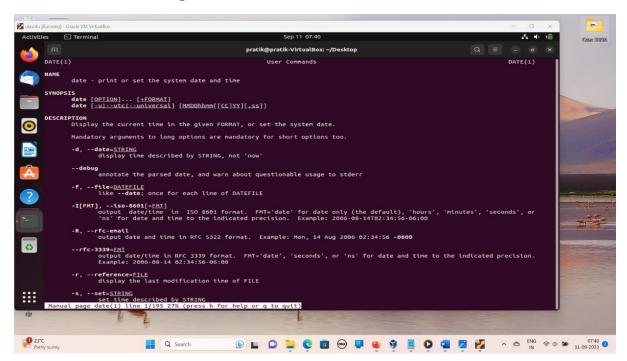
Ans=



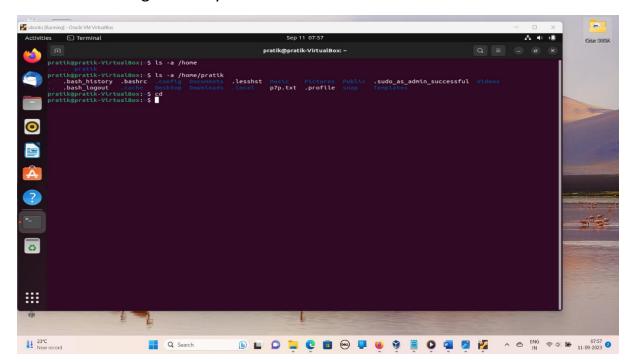
Q3)

Ans=

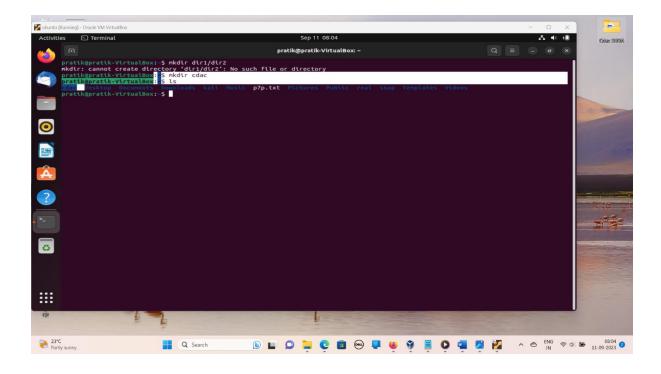
a) \$man :- Displays the manual page for a specified command eg-\$man date, which give detail manual of date command



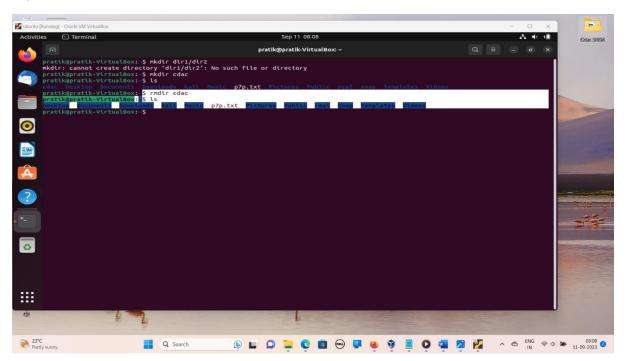
b) \$cd :- Changes directory command cd which changes the current working directory.



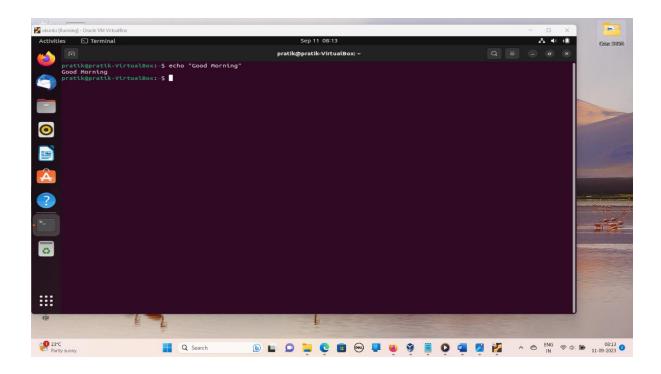
c) \$ mkdi :- Creates a new directory.



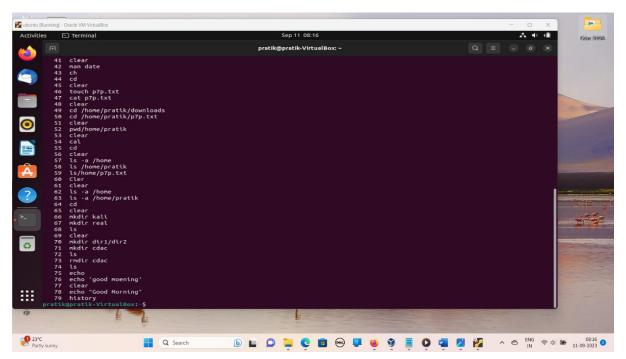
d) \$ rmdir :-



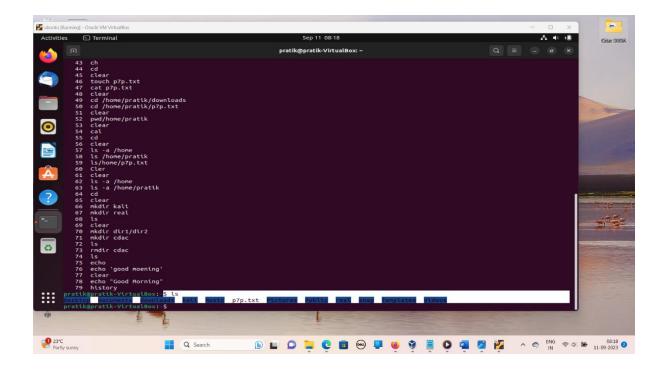
e) \$ echo :- Prints a message



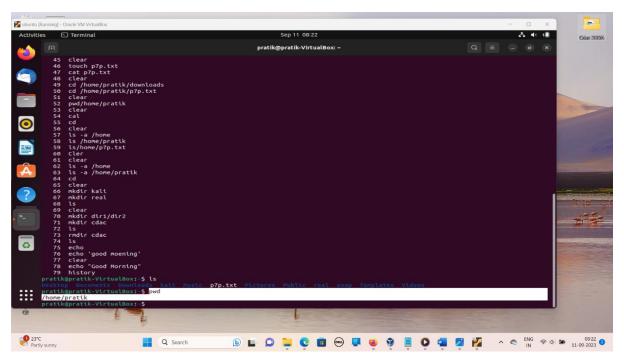
f) \$ history :- Displays a list of previously executed commands.



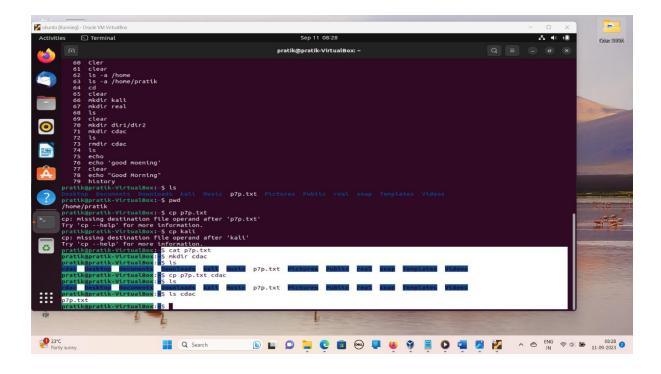
g) \$ Is :- Lists files and directories in the system.



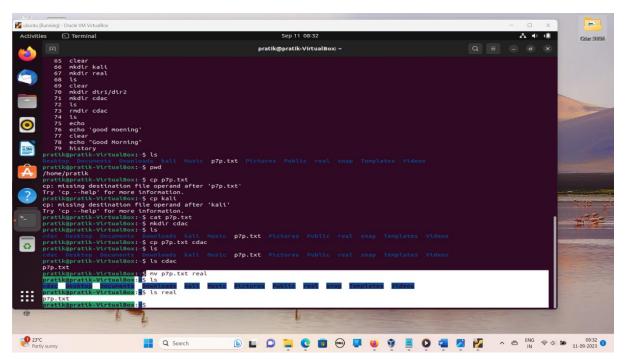
h) \$ pwd :- Prints the current working directory.



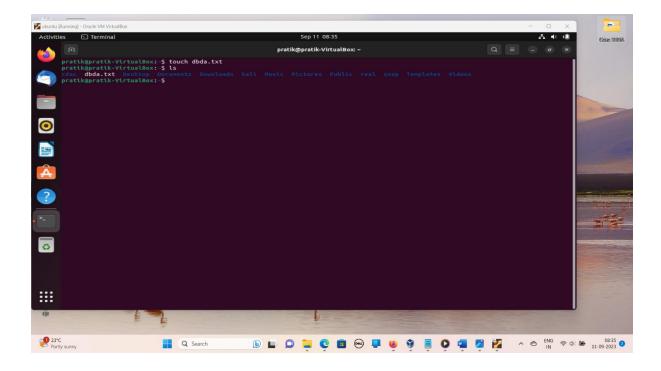
i) \$ cp:-Copies files.



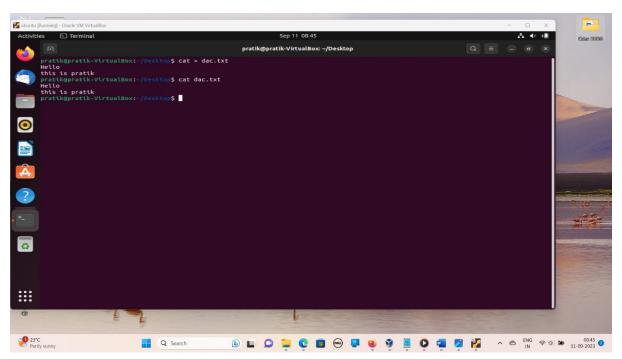
j) \$ mv :- Moves files.



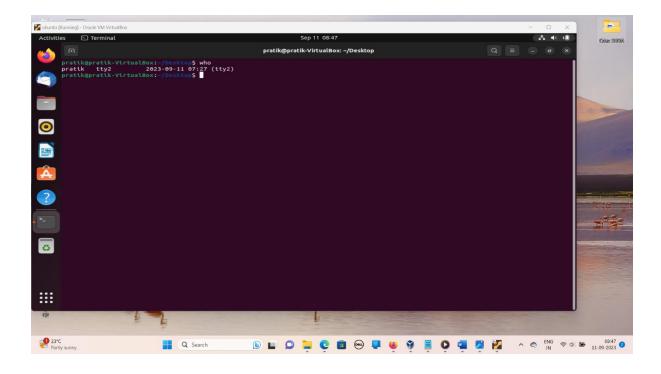
K) \$ touch:_ Creates an empty file



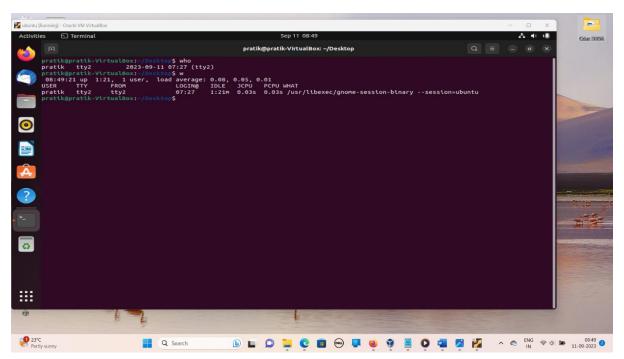
I) \$ cat :- displays the content of files



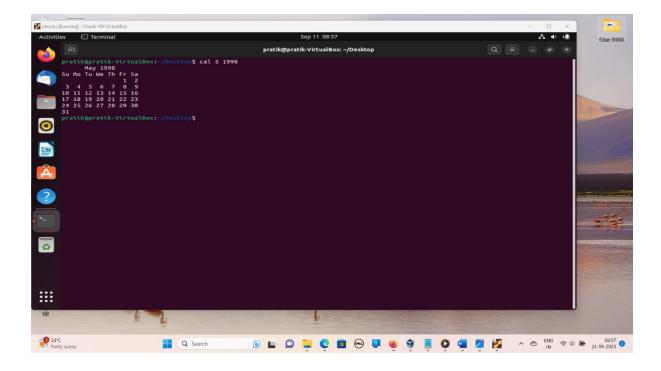
m) \$ who :- Displays about currently logged in users.



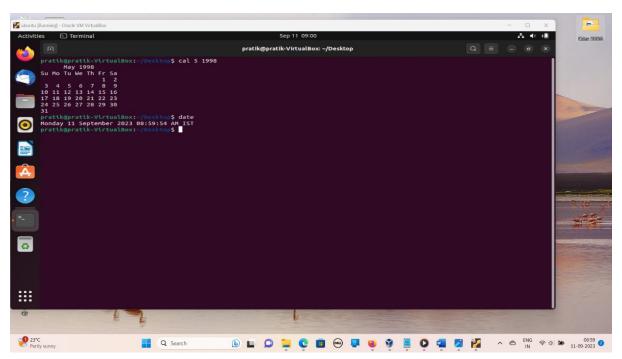
n) \$ w :- Provides information users and their activities.



o) \$ cal :- Displays a calendar for a specific month or year.

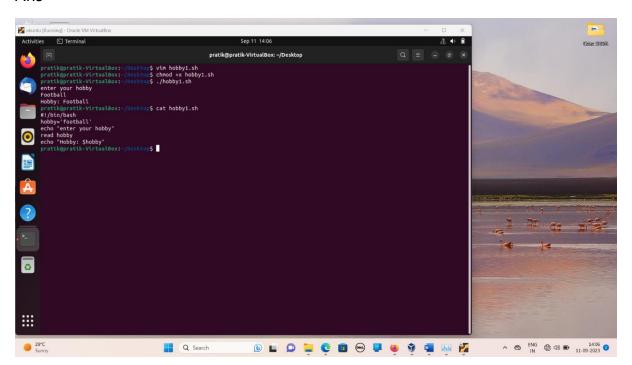


p) \$ date :- It displays current date and time



Q4)

Ans=



Q5)

- Ans= 1) Root Directory (/): The top level directory in the Linux file system hierarchy. Everything in the file system is located under this directory. The root directory is represented by a forward slash (/). For example, /home,
- 2) **Folders or directories:** Directories themselves are also files in the file system, but they serve as containers for organizing data.
- **3) Files:** Files represent data, programs, and documents. They are stored within directories. File also contain paths which are,
 - a) Absolute path- specify the full path to a file
- b) Relative path- Start from the current working directory and specify a path relative to that location
- **4) Permissions:** file permission system to control who can access and manipulate files and directories. Permissions are assigned to users, groups, and others, and they determine whether a user can read, write, or execute a file.

- **5) Symbolic Links:-** They provide a flexible way to reference and access files and directories without copying or moving them physically.
- **6) Mount Points:-** When a device is mounted, its contents become accessible as if they were part of the file system hierarchy.
- **7) Special Files:** In Linux, everything is treated as a file, including hardware devices, system information, and communication channels.