Name: Meet Brijwani

Roll no: 14

Batch: S11

Experiment 2: Linux shell script

Aim:

Write shell scripts to do the following:

- a. Display OS version, release number, kernel version
- b. Display top 10 processes in descending order
- c. Display processes with highest memory usage.
- d. Display current logged in user and log name.

Display current shell, home directory, operating system type, current path setting, current working directory.

Theory:

A

```
i) uname - r{username}
```

To show the OS version, release no. OS release version

ii) uname - v

Shows Kernel version (last when launched)

iii) uname - a

Shows all the details including OS used, PC and other details.

$$us - c + u - r \rightarrow us - a$$

B]

i) ps-aux (i) sort : nk +41 tail

Sorts 10 processes in descending order. It shows logged in users, modes of memory & storage.

OR

ii) ps-aux | tail

Same as above

OR

iii) ps-aux | sort -nl+4 | tail - n15 (shows top 15 processes) same with 15

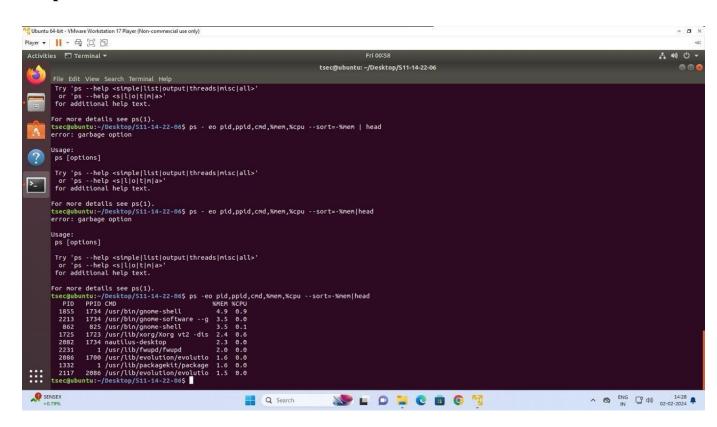
C

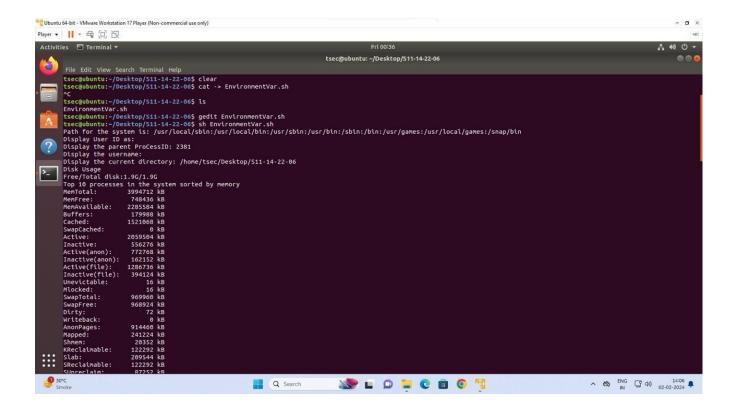
i) sudo apt install htop shows date of processes with highest memory ii) ps - eo pid, ppid, cmd, % mem, % cpu –sort =-% mem | head same as above same as above

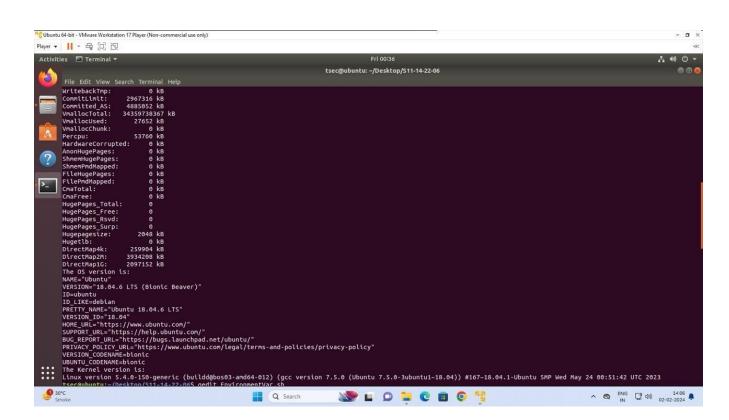
D]

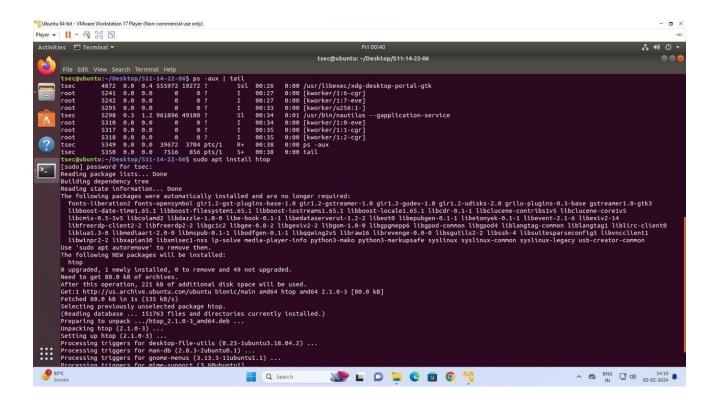
- i) ps-p\$\$Shows process ID and current shell
- ii) echo display home directoryecho \$ homeTo display home directory

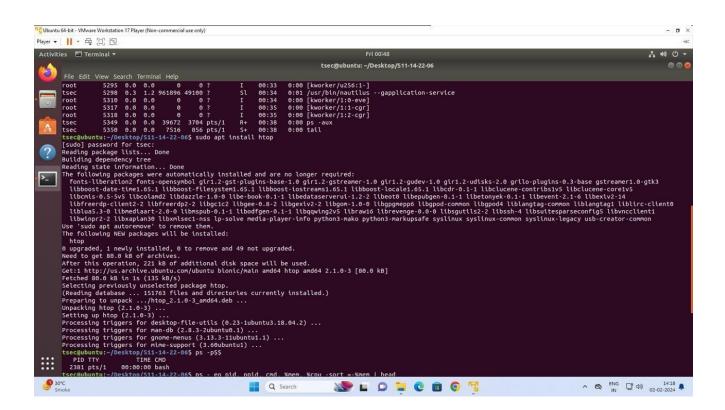
Output:

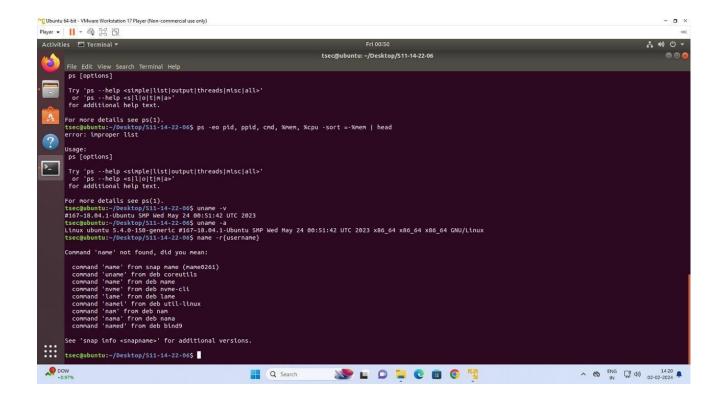


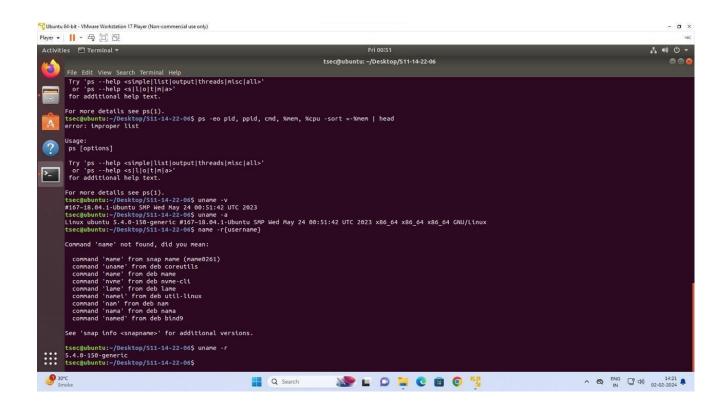


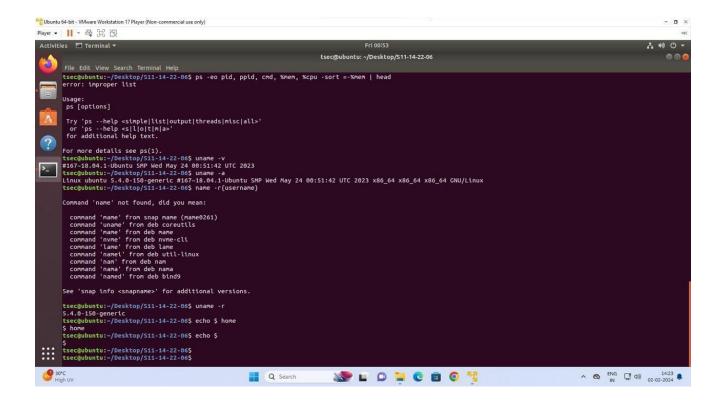


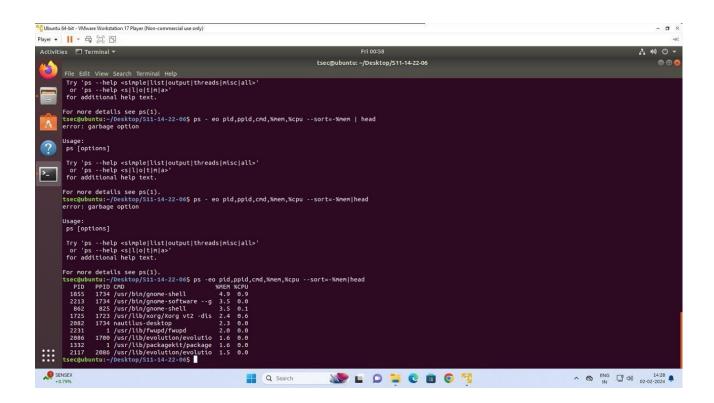












Conclusion: Thus, we have successfully studied and implemented shell scripting languages