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4 Experiment 2:

• AIM: To study the shell scripting language

A display OS version release number kernel version

B display top 10 processors in descending order

C display processes with highest memory usage

D display c+

• THEORY:

\mathbf{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.

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

<u>B]</u>

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

C1

i) sudo apt install htop

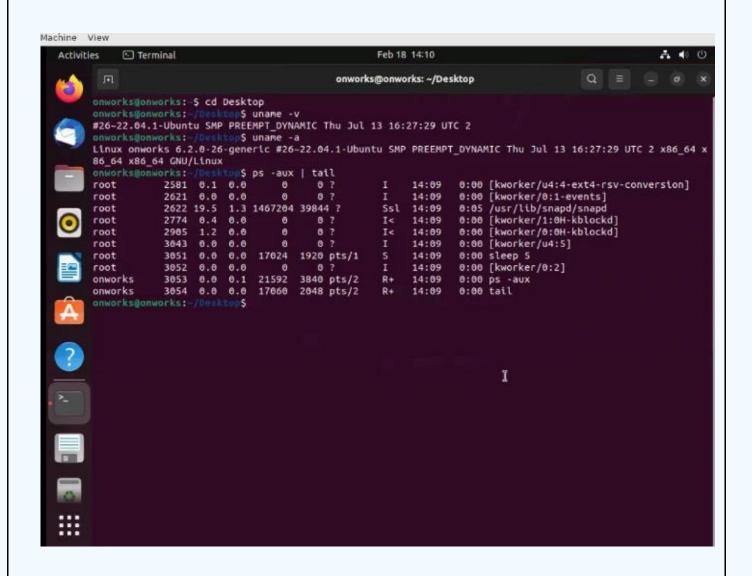
shows date of processes with highest memory

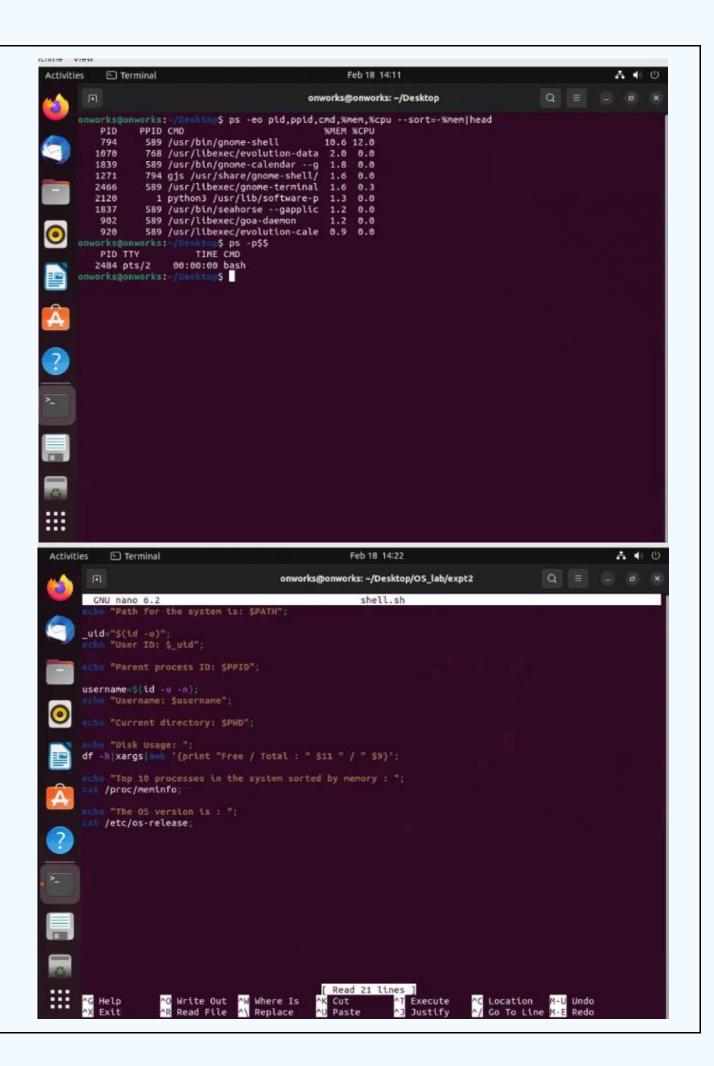
ii) ps - eo pid, ppid, cmd, % mem, % cpu -sort =-% mem | head same as above same as above

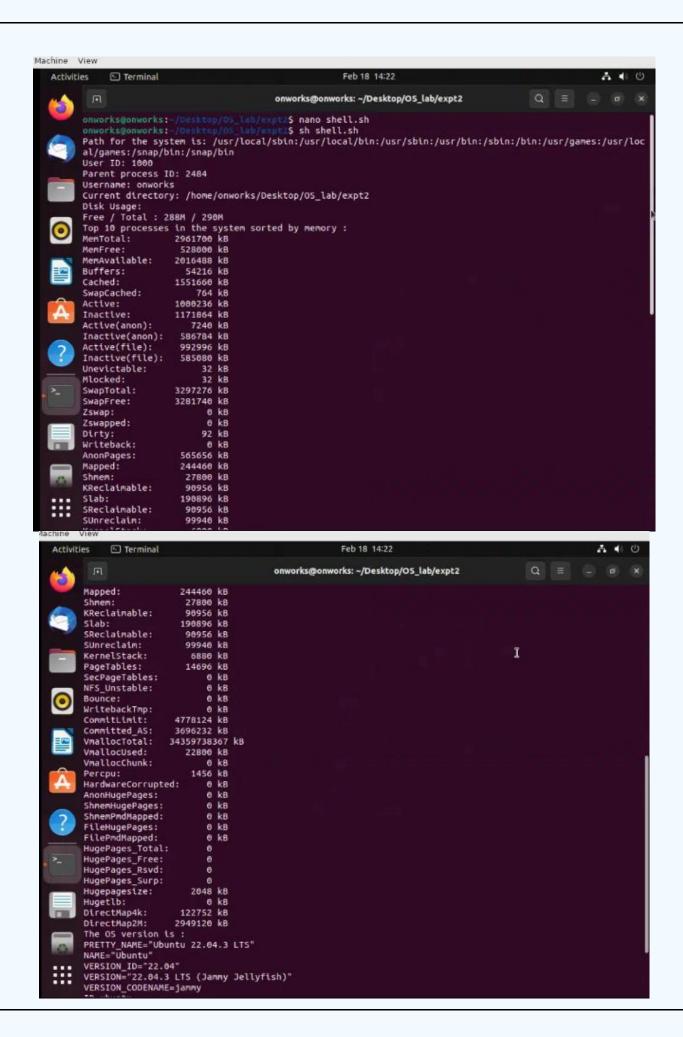
D]

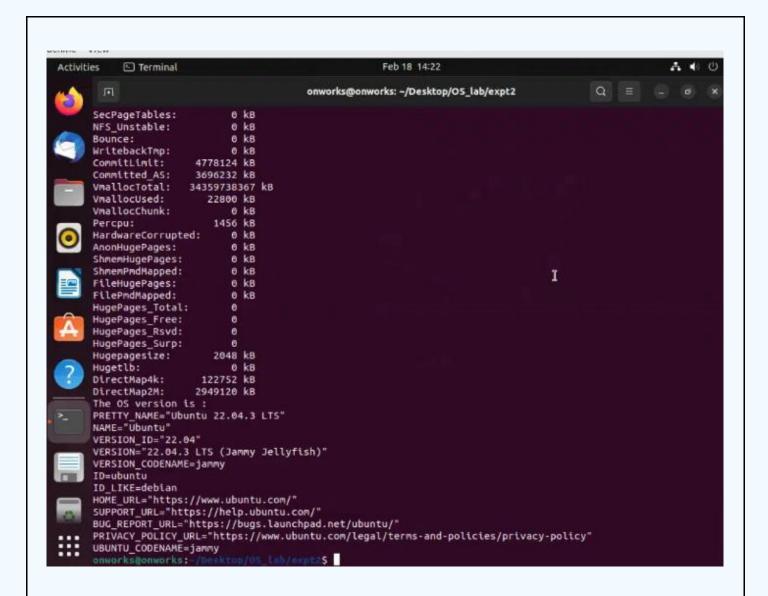
i) ps-p\$\$Shows process ID and current shellii) echo display home directoryecho \$ homeTo display home directory

• SCREENSHOTS:









• <u>CONCLUSION:</u> Thus, we have successfully studied and implemented shell scripting.