Vivekanand Education Society's
Institute of Technology
Approved by AICTE & Affiliated to University of Mumbai

Artificial Intelligence and Data Science Department.
OS / Even Sem 2021-22 / Experiment 2.

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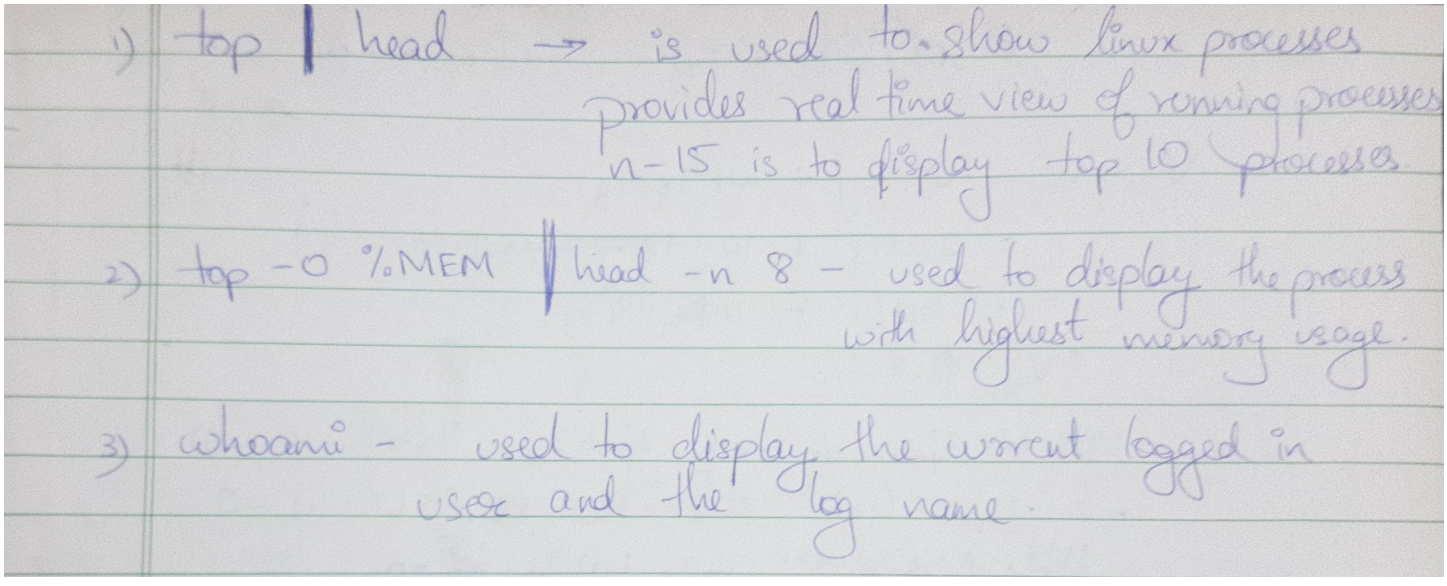
47 / D6AD.
EXPERIMENT - 2.
Shell Script

Aim:
Learning to write and execute Shell Scripts in Unix interactive environment.

Theory:



Snippets:

```
┌──(kali㉿kali)-[~/Desktop/Example/Assignment]
└─$ cat assignment2.sh
echo "1st"
top | head -n 15

echo "2nd"
top -o %MEM | head -n 8

echo "3rd"
whoami

┌──(kali㉿kali)-[~/Desktop/Example/Assignment]
└─$ sh assignment2.sh
1st

top - 12:47:18 up 15 min,  1 user,  load average: 0.19, 0.09, 0.09
Tasks: 196 total,   1 running, 194 sleeping,   1 stopped,   0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1974.2 total,    989.5 free,    558.6 used,    426.1 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used.   1257.0 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
      1 root      20   0  164304  10564   7972 S   0.0   0.5   0:00.85 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
      9 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
     10 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
2nd
```

```
top - 12:47:21 up 15 min,  1 user,  load average: 0.25, 0.11, 0.09
Tasks: 196 total,   1 running, 194 sleeping,   1 stopped,   0 zombie
%Cpu(s):  3.2 us,  0.0 sy,  0.0 ni, 96.8 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1974.2 total,    985.5 free,    562.3 used,    426.4 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used.   1253.2 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
    629 root      20   0  377700 119004  51688 S   0.0   5.9   0:05.91 Xorg
3rd
kali
```

Conclusion:-

Thus we have learned to implement shell scripts in Unix.
