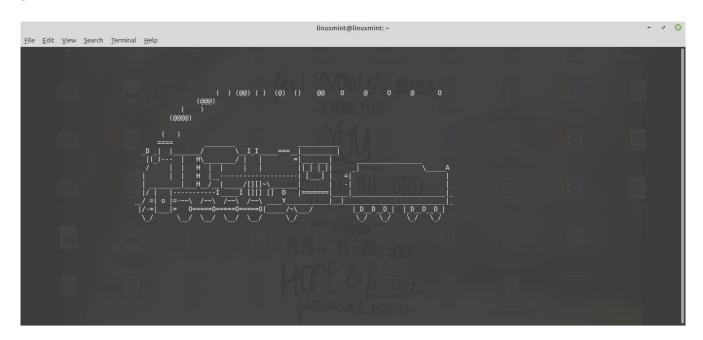
LINUX LAB

17MIS1014 BLESSY BOBAN

1)1) SL:

code: sudo apt-get install sl sl



EXPLANATION:

Install the package sl and execute . Then a moving train structure will appear. 2)

2) SCRIPT1.SH

CODE:

rev

factor

yes.

```
linuxmint@linuxmint: ~
  File Edit View Search Terminal Help
Need to get 26.4 kB of archives.
After this operation, 98.3 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu bionic/universe amd64 sl amd64 3.03-17build2 [26.4 kB]
Fetched 26.4 kB in 1s (18.5 kB/s)
Selecting previously unselected package sl.

(Reading database ... 253871 files and directories currently installed.)

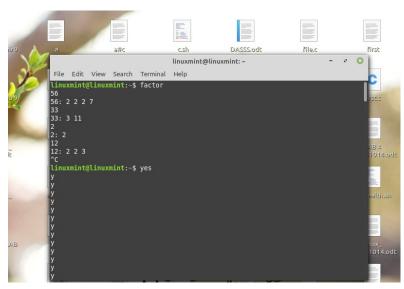
Preparing to unpack .../sl 3.03-17build2_amd64.deb ...

Unpacking sl (3.03-17build2) ...

Setting up sl (3.03-17build2) ...

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

linuxmint@linuxmint:-$ sl
linuxmint@linuxmint:~$ sl
linuxmint@linuxmint:~$ sl
linuxmint@linuxmint:~$ sl
linuxmint@linuxmint:~$ rev
 factor
rotcaf
yes
 sey
 no
on
blessy
ysselb
 so what
tahw os
hahahah
hahahah
kohikode
 edokihok
 kerala
alarek
```



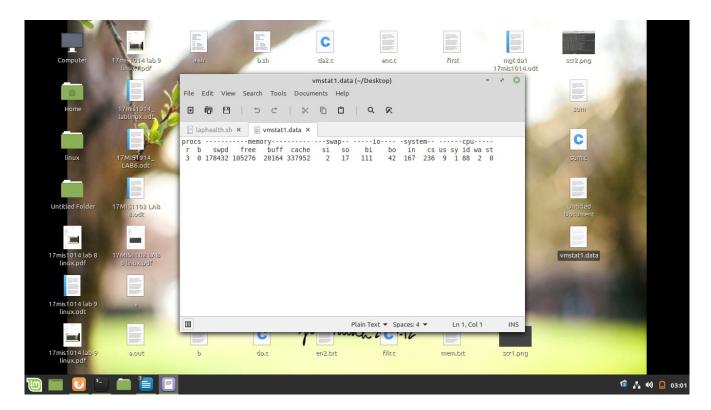
EXPLANATION:

rev commands reverse the input string.whatever we type it will reverse and gives the output. And factor will give you the factor and yes command prints the y in a continuous loop.

3)Write a bash script to monitor health of the system.

```
vmstat 1200 > vmstat1.data
filename=" /home/linuxmint/Desktop"
tail -f $filename |
while read $line do
if [ (cat vmstat1.data | grep "swap")>0 ]
then
   echo "some rogue process has consumed massive amounts of memory"> swap.txt
fi
if [ (cat vmstat1.data | grep "r")>1 ]
then
   echo "some process are waiting to execute"> runqueue.txt
fi
if [ (cat vmstat1.data | grep "cpu")>1000 ]
then
   echo "cpu usage is more"> cpu.txt
fi
End
```

```
linuxmint@linuxmint:~/Desktop$ chmod +x laphealth.sh
linuxmint@linuxmint:~/Desktop$ ./laphealth.sh
```



Explanation:

the vmstat 1200 – monitors every 24 hours and puts the data into the vmstat1.data

grep "swap"- the swap should always be zero if its not then some process has consumed massive memory. That will be monitored in this line

grep "r"- the running queue is constantly above process 1 it indicates the system is slow and some process is waiting to be executed. That will be monitored here.

Grep "cpu"- it indicates the cpu usage of the system. If the cpu usage is more it will be monitored and will alert in this line.

