LINUX PROGRAMMING

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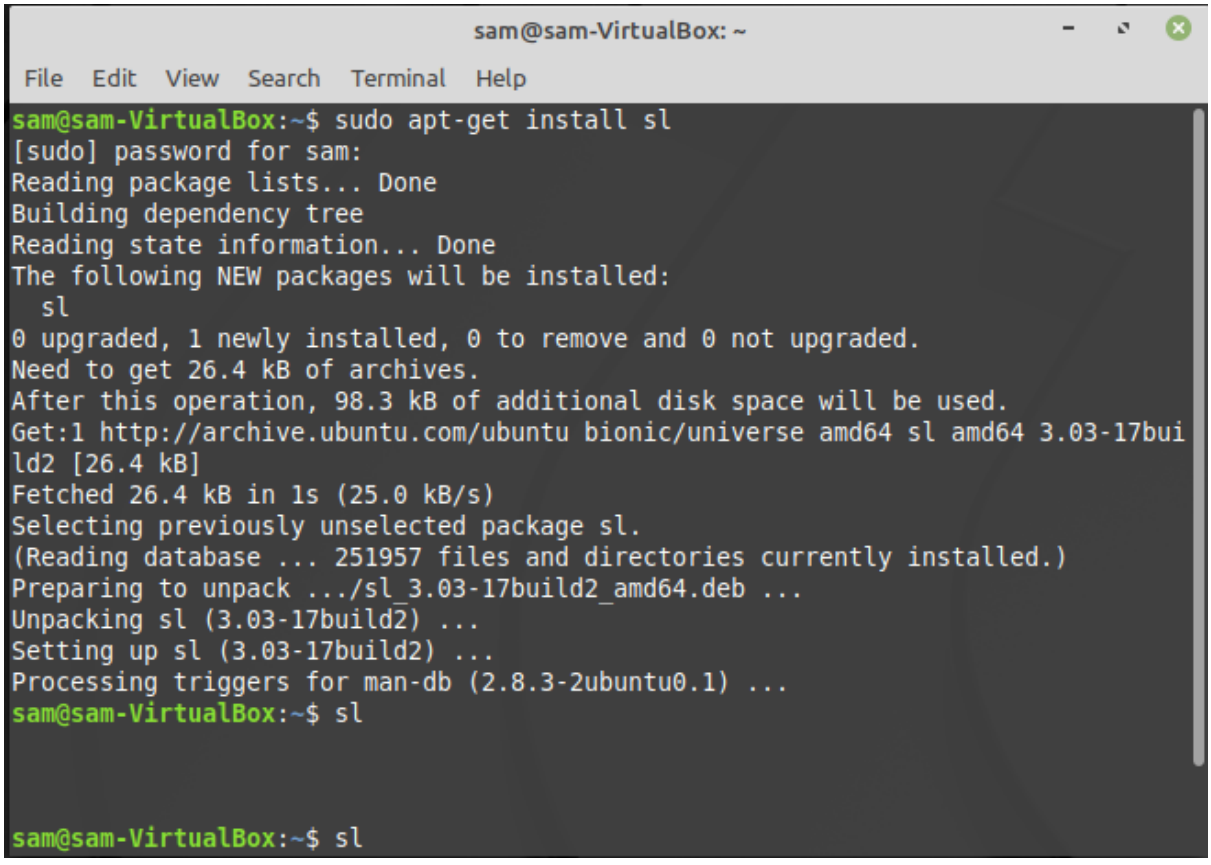
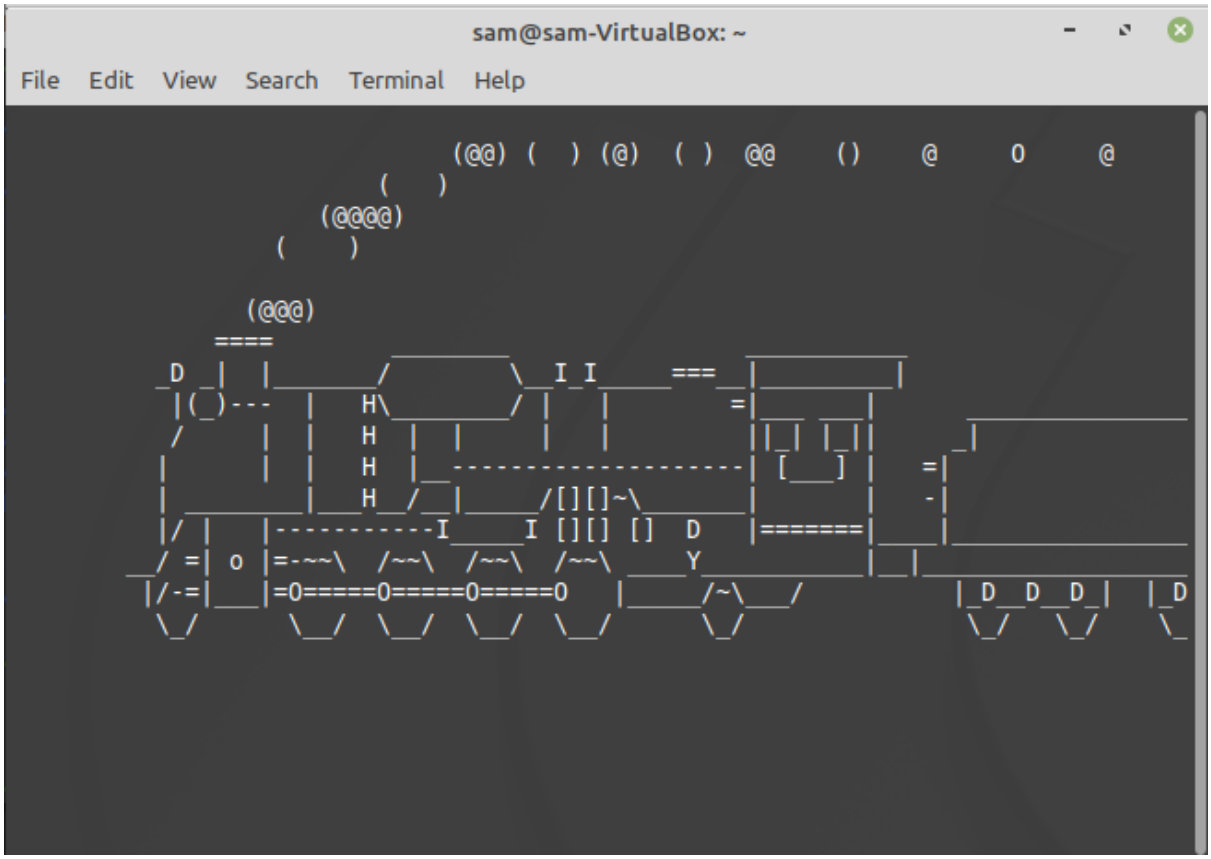
1. sl

sudo apt-get install sl

sl.sh
sl





2.

Commands:

rev

Factor

yes

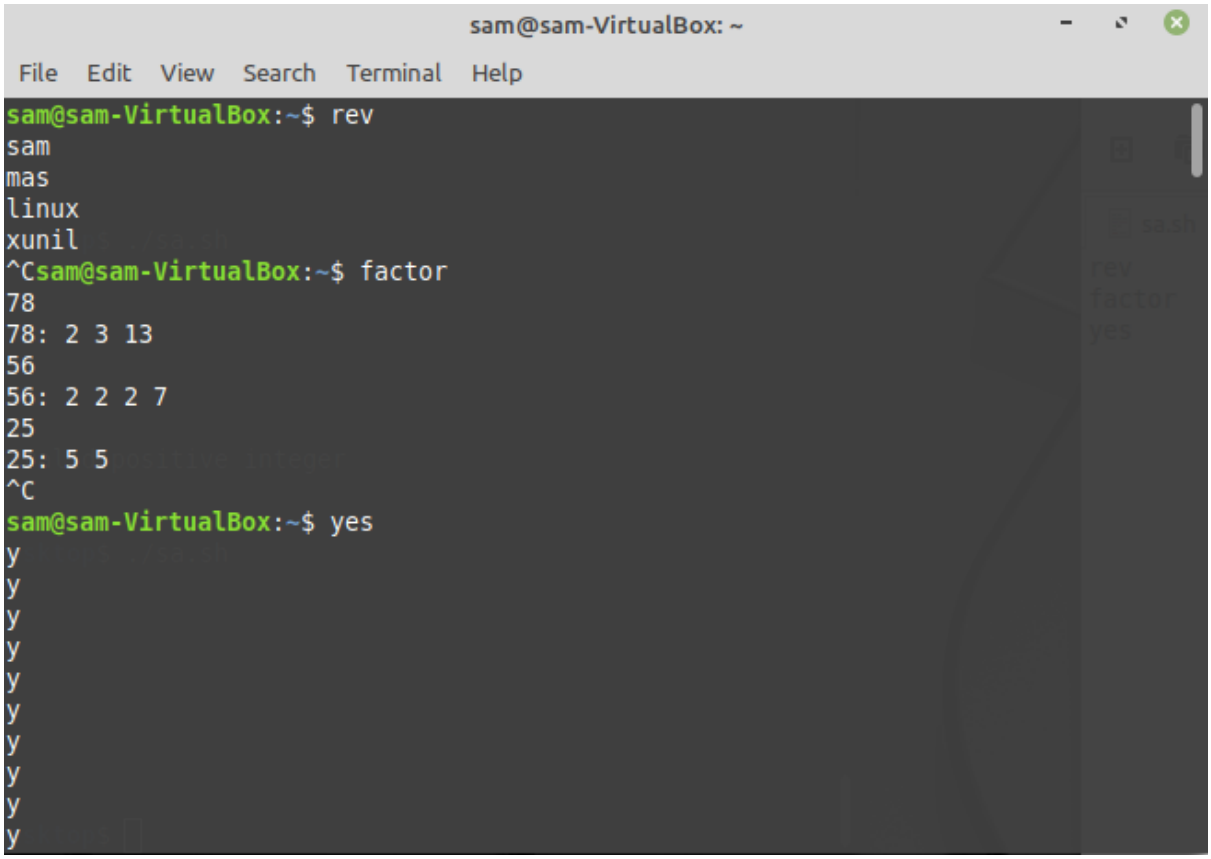
sa.sh

rev

factor

yes

```
sam@sam-VirtualBox:~/Desktop$ chmod +x sa.sh
sam@sam-VirtualBox:~/Desktop$ ./sa.sh
sam
mas
river
revir
linux
xunil
```



3.

Write a bash shell script to monitor the health of your system. Let the details be stored and archived in any folder of your choice.

vmstat 1200 > ss.data

filename= "/home/sam/Desktop/ss.data"

tail -f $filename |

while read $line do

if [(cat ss.data | grep "swap")>0]

then

echo "some rogue process has consumed massive amounts of memory"> swap.txt

fi

if [(cat ss.data | grep "r")>1]

then

echo "some process are waiting to execute"> runqueue.txt

fi

```
if [ (cat ss.data | grep "cpu")>1000  ]
then
 echo "cpu usage is more"> cpu.txt
fi
End
```

```
sam@sam-VirtualBox:~/Desktop$ chmod +x sys_health.sh
sam@sam-VirtualBox:~/Desktop$ ./sys_health.sh
^Csam@sam-VirtualBox:~/Desktop$
```

sa.sh × sys_health.sh × ss.data ×

```
procs -----------memory---------- ---swap-- -----io---- -system-- ------cpu-----
 r  b   swpd   free   buff  cache   si   so    bi    bo   in   cs us sy id wa st
 4  0      0 2487972  54080 827256    0    0   208    55  164  634 12  1 84  2  0
```

GITHUB LINK:

https://github.com/samyugdhas/sl_system_health_monitor