

## LINUX LAB

17MIS1065  
APARNA.R

### 1)sl

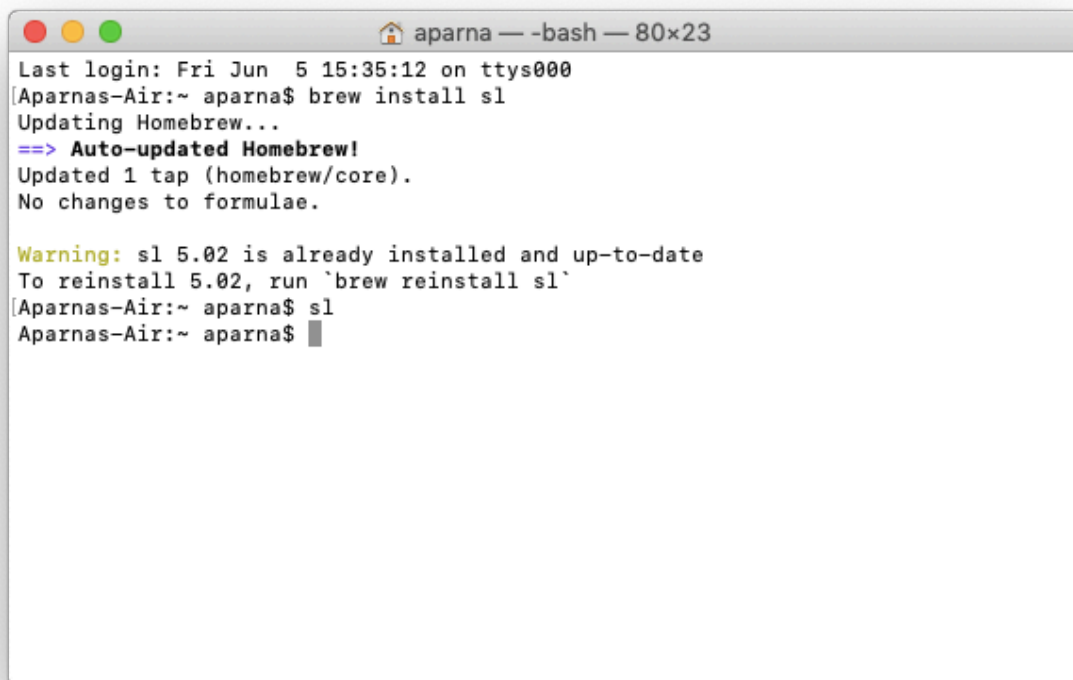
```
sudo apt-get install sl  
sl
```

#### EXPLANATION:

When the sl command is used it installs the package and the terminal shows a train.

#### OUTPUT:

(COMMAND)



```
aparna — -bash — 80x23  
Last login: Fri Jun  5 15:35:12 on ttys000  
[Aparnas-Air:~ aparna$ brew install sl  
Updating Homebrew...  
==> Auto-updated Homebrew!  
Updated 1 tap (homebrew/core).  
No changes to formulae.  
  
Warning: sl 5.02 is already installed and up-to-date  
To reinstall 5.02, run `brew reinstall sl`  
[Aparnas-Air:~ aparna$ sl  
Aparnas-Air:~ aparna$
```

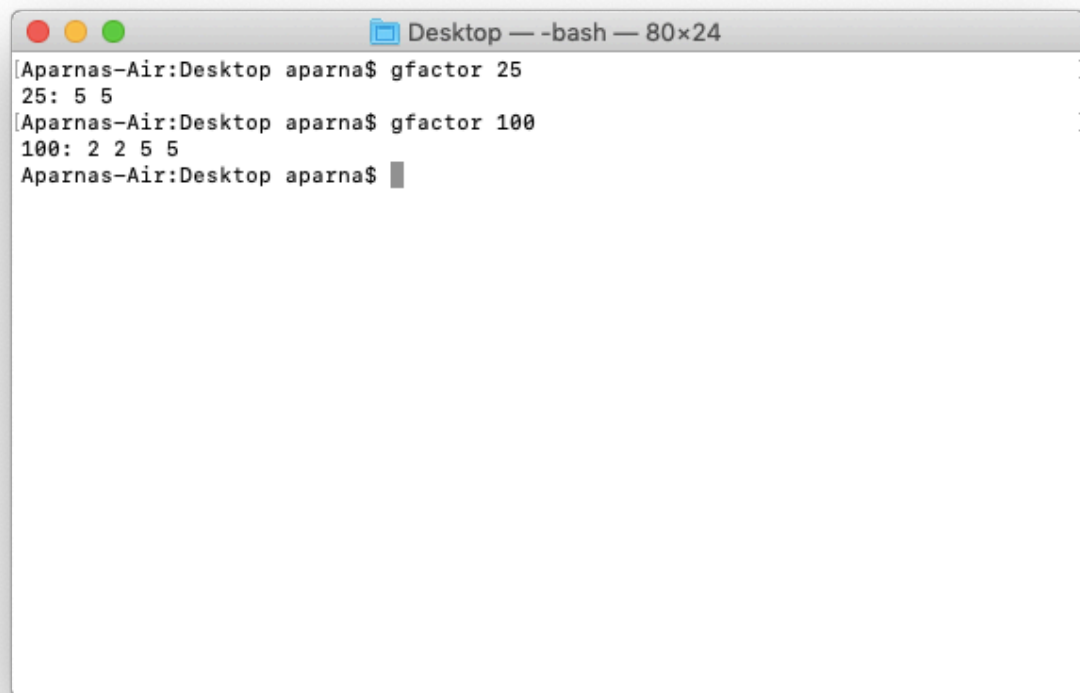
(OUTPUT)

This command “rev” is used to reverse the lines.

A screenshot of a macOS terminal window. The title bar at the top shows three colored window control buttons (red, yellow, green) on the left, a home icon followed by the text 'aparna — rev — 80x24' in the center, and a close button on the right. The terminal content shows a login message: 'Last login: Fri Jun 5 18:03:02 on ttys000'. Below this is the prompt 'Aparnas-Air:~ aparna\$' followed by the command 'rev'. The output of the command is displayed on the next line, showing the words 'Aparna', 'anrapA', 'Linux', and 'xuniL' stacked vertically. A cursor is visible at the end of the last line of output.

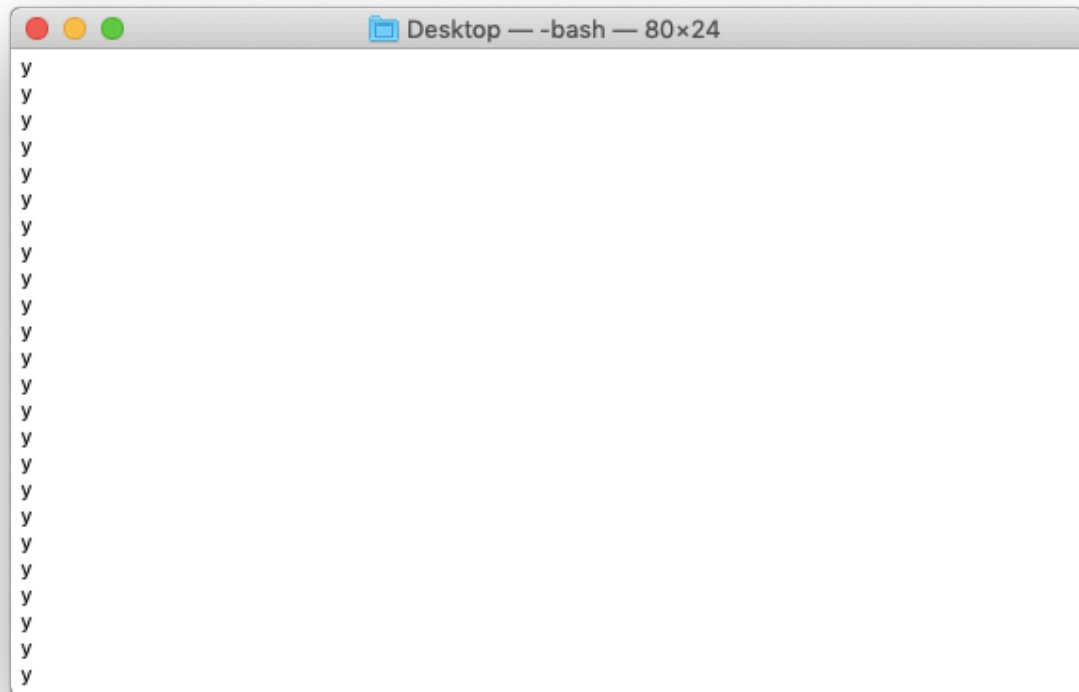
```
Last login: Fri Jun 5 18:03:02 on ttys000
Aparnas-Air:~ aparna$ rev
Aparna
anrapA
Linux
xuniL
█
```

Factor command

A screenshot of a macOS terminal window titled "Desktop — -bash — 80x24". The window shows the execution of the 'gfactor' command on the numbers 25 and 100. The output for 25 is '5 5' and for 100 is '2 2 5 5'.

```
[Aparnas-Air:Desktop aparna$ gfactor 25  
25: 5 5  
[Aparnas-Air:Desktop aparna$ gfactor 100  
100: 2 2 5 5  
Aparnas-Air:Desktop aparna$ ]
```

Yes command



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

```
vm_stat 5 > vm_stat2.data
filename= "/User/aparna/vm_state2.data"
tail -f $filename |
while read $line do
if [ (cat vm_stat2.data | grep "swap")>0 ]
then
echo "some rogue process has consumed massive amounts of memory"> swap.txt
fi
if [ (cat vm_stat2.data | grep "r")>1 ]
then
echo "some process are waiting to execute"> runqueue.txt
fi
if [ (cat vm_stat2.data | grep "cpu")>1000 ]
then
echo "cpu usage is more"> cpu.txt
fi
End
```

```
vm_stat 5 > vm_stat2.data
filename= "/User/aparna/vm_state2.data"
tail -f $filename |
while read $line do
if [ (cat vm_stat2.data | grep "swap")>0 ]
then
echo "some rogue process has consumed massive amounts of memory"> swap.txt
fi
if [ (cat vm_stat2.data | grep "r")>1 ]
then
echo "some process are waiting to execute"> runqueue.txt
fi
if [ (cat vm_stat2.data | grep "cpu")>1000 ]
then
echo "cpu usage is more"> cpu.txt
fi
End
```

```
Desktop — -bash — 80x24
[Aparnas-Air:~ aparna$ cd Desktop
[Aparnas-Air:Desktop aparna$ vmstat 5 > vmstat.data
-bash: vmstat: command not found
[Aparnas-Air:Desktop aparna$ brew install vmstat
Updating Homebrew...
==> Auto-updated Homebrew!
Updated 2 taps (homebrew/core and mongodb/brew).
==> Updated Formulae
dhall duck mongodb/brew/mongosh

Error: No available formula with the name "vmstat"
==> Searching for a previously deleted formula (in the last month)...
Error: No previously deleted formula found.
==> Searching for similarly named formulae...
Error: No similarly named formulae found.
==> Searching taps...
==> Searching taps on GitHub...
Error: No formulae found in taps.
[Aparnas-Air:Desktop aparna$ touch health.sh
[Aparnas-Air:Desktop aparna$ ./health.sh
-bash: ./health.sh: Permission denied
[Aparnas-Air:Desktop aparna$ chmod +x health.sh
[Aparnas-Air:Desktop aparna$ ./health.sh
^C[Aparnas-Air:Desktop aparna$
```

