Linux Programming

Lab-9

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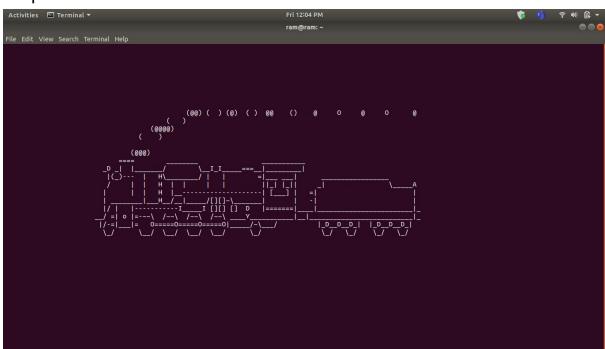
Reg: 16MIS1015

1.Script -1

Command: sudo apt-get install sl

sl

Output:



2. Script-2

Commands:

rev

factor

yes

Note: The 'rev' command is used to reverse a string and the 'factor' command is used to get the prime factors of the input number.

Output:

```
y
y
y
y
y
y
y
y
y
y
y
y
y

ram@ram:~$ ^C
ram@ram:~$ rev
madam
madam
reverse
esrever
^Cram@ram:~$ factor 333
333: 3 3 37
ram@ram:~$
```

2. 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.

CODE:

top -b -n1>health.txt tar -cvf 'healthhistory.tar' 'health.txt'

CRONTAB SPECIFICATION:

```
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GNU nano 2.9.3 /tmp/crontab.I7l2sU/crontab

* * * * * /home/ram/lab9.sh

Edit this file to introduce tasks to be run by cron.

# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task

# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '* 'in these fields (for 'any').#

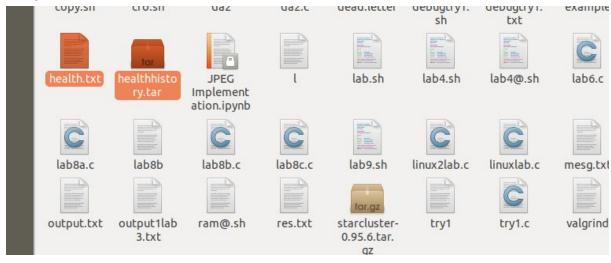
Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.

# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).

# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 9 5 * * 1 tar -zcf /var/backups/home.tgz /home/
# For more information see the manual pages of crontab(5) and cron(8)

# m h dom mon dow command
```

Output:



health.txt:

					lab9	.sh				*	health.txt
op -	12:38	3:05 up	48 m	in, 1 us	ser, lo	ad averag	ge: 0.	87, 1.0	01, 1.06		
sks:	313	total,	1	running,	257 sle	eping,	1 sto	pped,	0 zombie		
Cpu(s): 12	2.0 us,	3.1	sy, 0.3	l ni, 86	0.4 id,	3.8 wa	, 0.0	hi, 0.6	si, 0.0 st	
iB Me	em :	8041484	tot	al, 1729	9552 fre	e, 33388	348 us	ed, 25	973084 buf	f/cache	
iB Sv	vap:	2097148	tot	al, 2097	7148 fre	ee,	0 us	ed. 3	551144 ava	il Mem	
	USER	PR	NI	VIRT	RES	SHR S			100 to 10	COMMAND	
3773		20	0	51312	4128	3412 R			0:00.06		
2851		20		1157676	85892	56168 S			2:33.90		
3343		20		3240068		88500 S	5.3		2:09.91		
3651		20		2594548		76724 S	5.3		1:43.34		
291		20		1475164		39000 S	5.3			nautilus	
	root	20	0	225700	9476	6760 S	0.0	0.1	0:05.11		
	root	20	0	0	0	0 S	0.0	0.0		kthreadd	
	root		-20	0	0	0 I	0.0	0.0	0:00.00		
	root		-20	0	0	0 I	0.0	0.0		rcu_par_gp	
	root		-20	0	0	0 I	0.0	0.0		kworker/0:0H-kb	
	root	20	0	Θ	0	0 I	0.0			kworker/u8:0-ev	
	root	0	-20	0	0	0 I	0.0	0.0		mm_percpu_wq	
	root	20	0	0	0	0 S	0.0	0.0		ksoftirqd/0	
	root	20	0	0	0	0 I	0.0	0.0		rcu_sched	
12	root	rt	0	Θ	0	0 S	0.0	0.0	0:00.01	migration/0	
	root	-51	0	Θ	0	0 S	0.0	0.0		idle_inject/0	
14	root	20	0	0	0	0 S	0.0	0.0	0:00.00	cpuhp/0	
	root	20	0	0	0	0 S	0.0	0.0	0:00.00		
16	root	-51	0	0	0	0 S	0.0	0.0	0:00.00	idle_inject/1	
	root	rt	0	0	0	0 S	0.0	0.0		migration/1	
18	root	20	0	0	0	0 S	0.0	0.0		ksoftirqd/1	
20	root	0	-20	0	0	0 I	0.0	0.0		kworker/1:0H-kb	
21	root	20	0	0	0	0 S	0.0	0.0	0:00.00		
22	root	-51	0	0	0	0 S	0.0	0.0	0:00.00	idle_inject/2	
23	root	rt	0	0	0	0 S	0.0	0.0	0:00.14	migration/2	
24	root	20	0	0	0	0 S	0.0	0.0	0:00.11	ksoftirqd/2	
26	root	0	-20	Θ	0	0 I	0.0	0.0	0:00.00	kworker/2:0H-kb	
27	root	20	0	0	0	0 S	0.0	0.0	0:00.00	cpuhp/3	
20	root	E 1	۵	Α.	Φ.	a c	0 0	0 0	A . AA AA	idla iniact/2	elitat alueble i de

