1) Find all the usernames that logged in from "economica" on a Sunday:
>> grep 'economica' last.fake | grep 'Sun' | awk '{print $1}' | sort | uniq
Output: boir1417
giie1411
piir1546
vlir1593

2) Find all the users that logged into the system after 11PM
>> awk '$7 ~ /23:/{print $1}' last.fake | sort | uniq
Output: piir1546
srir1568
tnir1590
vlir1593

3) Display the full names of the users having a username that starts with "m" and with a user ID divisible by 7.
>> grep '^m' passwd.fake | awk -F: '$3%7==0{print $5}'
Output: Malinescu Amalia-Greta
Martinescu Bogdan
Malinescu Bianca-Liliana
Malinescu Diana-Flavia
Malinescu Elena-Ioana
Martinescu Laurentiu

4) Display all the distinct TTYs used by user root.
>> awk '$1 ~ /root/{print $6}' ps.fake | sort | uniq SAU grep "root" ps.fake | awk '{print $6}' | sort | uniq
Output: ?
pts/2
tty1
tty2
tty3
tty4
tty5
tty6

5) Find the full names of all the users whose username ends in 88
>> grep "88:" fake | awk -F':' '{print $5}'
Output: Lobodescu Amalia-Monica
Leopardescu Dan

6) Find all users whose user ID has three digits and starts with 23
>> grep ':23[0-9]:' fake | awk -F':' '{print $5}'
Output: Malinescu Elena-Greta
Malinescu Elena-Ioana
Malinescu Elena-Liliana
Malinescu Elena-Monica

7) Find all usersnames starting with "t" that logged on "pts/9"
>> grep '^t' last.fake | awk '$2 ~ /pts\/9/{print $1}' SAU grep "^t" last.fake | grep "pts/9" | awk '{print $1}' | sort | uniq
Output: toir1583
tmir1388
toie1637

8) Find all the distinct usernames starting with "r" that are currently running programs, and display them duplicating every vowel
>> grep '^r' ps.fake | awk '{print $1}' | sort | uniq | sed -e 's/a/aa/' -e 's/e/ee/' -e 's/i/ii/' -e 's/o/oo/' -e 's/u/uu/'
Output: raarees
rooot
rpc
rpcuuseer
rtkiit

9) Display all the distinct lines left in passwd.fake after deleting all letter and digits and spaces.
>> sed -E 's/[a-zA-Z0-9]//gi' passwd.fake | awk '{print $0}' | sort | uniq
Output: ::::-:////://
:::::////://

10) Display all the distinct lines left in /etc/passwd after deleting all characters except "r".
>> sed -E 's/[^r]//g' passwd.fake | awk '{print $0}' | sort | uniq
Output: r
rr
rrr
rrrr

11) Calculate the average of the PIDs of the processes currently running in the system.
>> awk 'BEGIN{s=0} {s+=$2} END{print s/NR}' ps.fake
Output: 8373.95