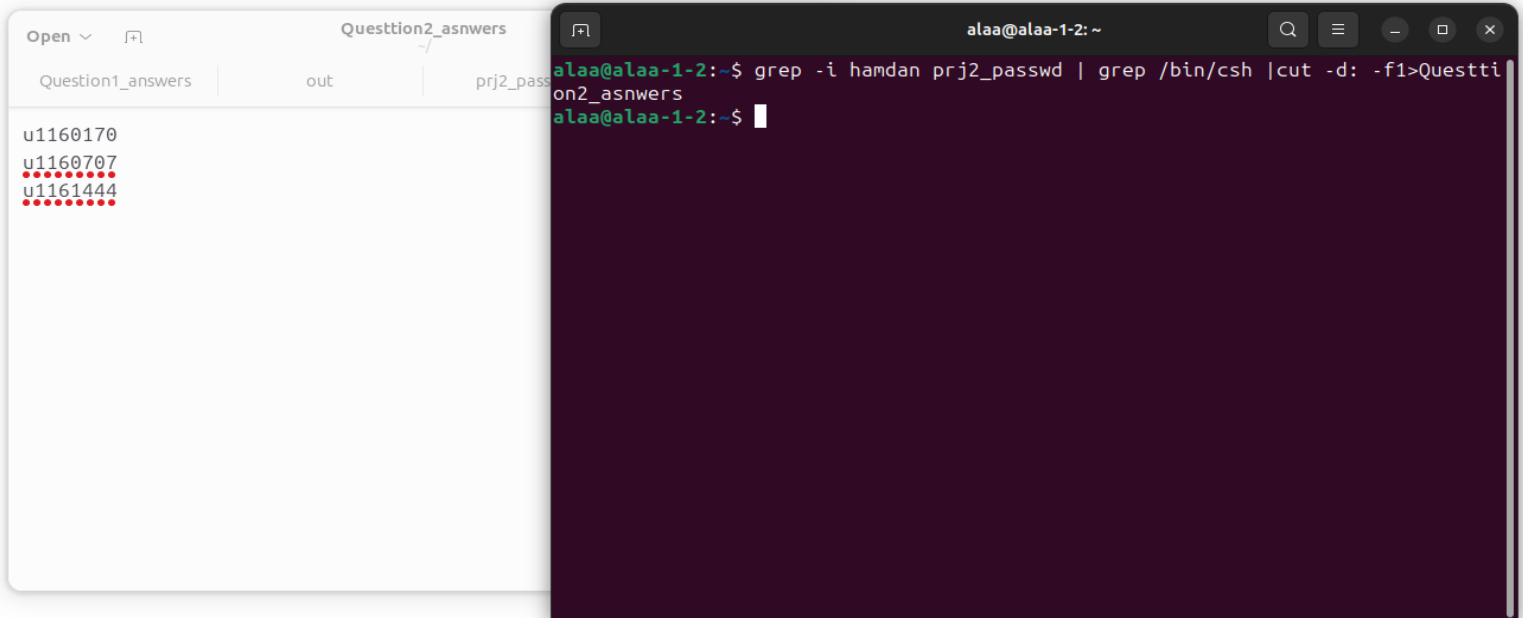


Question2_image

Q1)



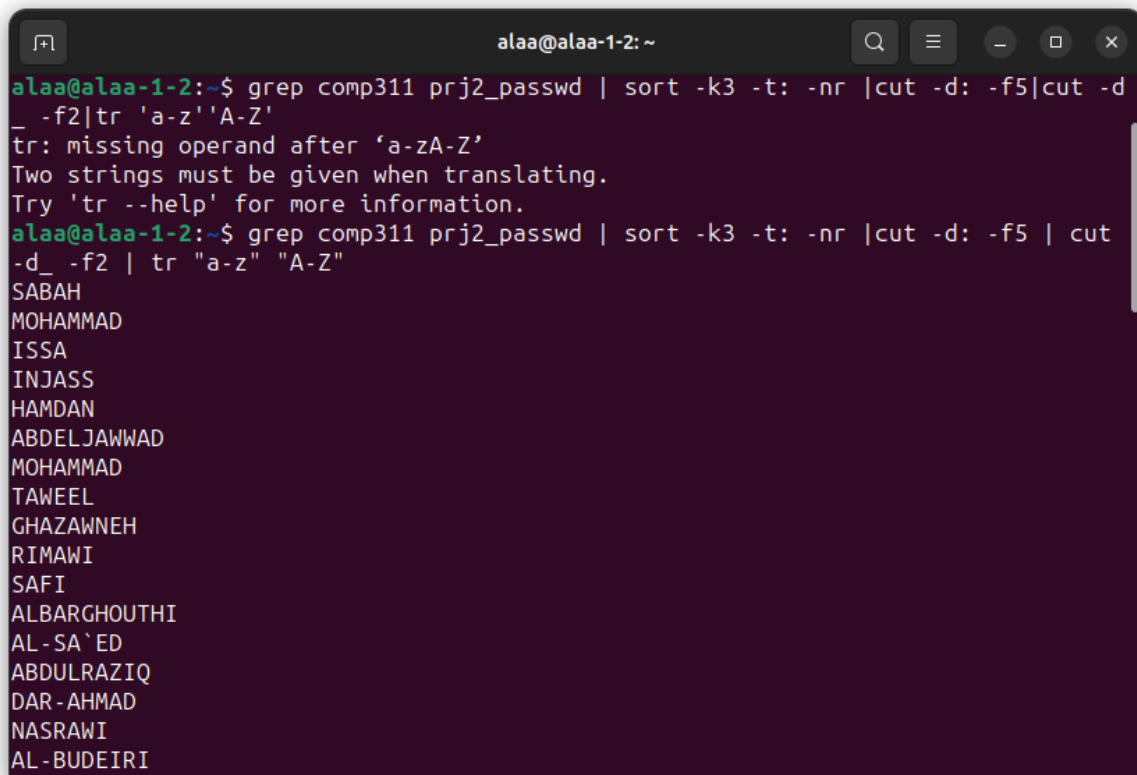
The image shows two terminal windows. The left window, titled 'Question2_asnwers', displays the contents of a file named 'out', which lists three IP addresses: u1160170, u1160707, and u1161444. The right window, titled 'alaa@alaa-1-2: ~', shows the execution of a command: `grep -i hamdan prj2_passwd | grep /bin/csh | cut -d: -f1 > Question2_asnwers`.

```
Open ▾ Question2_asnwers
Question1_answers | out | prj2_passwd

u1160170
u1160707
u1161444

alaa@alaa-1-2:~$ grep -i hamdan prj2_passwd | grep /bin/csh | cut -d: -f1 > Question2_asnwers
alaa@alaa-1-2:~$
```

Q2)



The image shows a terminal window titled 'alaa@alaa-1-2: ~'. It displays the execution of a command: `grep comp311 prj2_passwd | sort -k3 -t: -nr | cut -d: -f5 | cut -d_ -f2 | tr 'a-z' 'A-Z'`. The command results in an error message: `tr: missing operand after 'a-zA-Z'`. A second command is then executed: `grep comp311 prj2_passwd | sort -k3 -t: -nr | cut -d: -f5 | cut -d_ -f2 | tr "a-z" "A-Z"`, which produces a list of names: SABAH, MOHAMMAD, ISSA, INJASS, HAMDAN, ABDELJAWWAD, MOHAMMAD, TAWHEEL, GHAZAWNEH, RIMAWI, SAFI, ALBARGHOUTH, AL-SA'ED, ABDULRAZIQ, DAR-AHMAD, NASRAWI, and AL-BUDEIRI.

```
alaa@alaa-1-2:~$ grep comp311 prj2_passwd | sort -k3 -t: -nr | cut -d: -f5 | cut -d_ -f2 | tr 'a-z' 'A-Z'
tr: missing operand after 'a-zA-Z'
Two strings must be given when translating.
Try 'tr --help' for more information.
alaa@alaa-1-2:~$ grep comp311 prj2_passwd | sort -k3 -t: -nr | cut -d: -f5 | cut -d_ -f2 | tr "a-z" "A-Z"
SABAH
MOHAMMAD
ISSA
INJASS
HAMDAN
ABDELJAWWAD
MOHAMMAD
TAWHEEL
GHAZAWNEH
RIMAWI
SAFI
ALBARGHOUTH
AL-SA`ED
ABDULRAZIQ
DAR-AHMAD
NASRAWI
AL-BUDEIRI
```

```
alaa@alaa-1-2: ~  
ALBARGHOUTH  
AL - SA`ED  
ABDULRAZIQ  
DAR - AHMAD  
NASRAWI  
AL - BUDEIRI  
SA`FIN  
NOFAL  
WHDAN  
HAMDAN,U1151429  
SALMAN  
RIFAIE  
IDREES  
FITIANI  
KHALAF  
MOHAMMAD  
QASEM  
SALAH  
KHATEEB  
ABDELKADER  
GHANNAM  
ZUBAIDI  
HAMDAN  
AHMAD
```

```
alaa@alaa-1-2: ~  
AHMAD  
ALMASLOOT  
HAMED  
ALMUTAN  
HMEIDAN  
ALAWY  
KHAROUBI  
ZOHOUR  
SHAER  
AYYASH  
HAMDANI  
YAAQBEH  
HAMED  
SALAH  
SALAH  
YAHYA  
YAHYA  
HUSSIEN  
HAMDAN  
SHAMASNAH  
ZALLOUM  
ALIMI  
IBRAHIM  
ABUGHANNAM
```

Q3)

Open ▾ [+]

users.txt | a_hsorted.

```
RAWAN ALIMI
YARA HUSSEIN
MUAYED HAMDAN
MUSTAFA SALAH
RAMI SALMAN
TAQWA HAMDAN
```

alaa@alaa-1-2: ~

```
alaa@alaa-1-2:~$ grep /bin/ksh prj2_passwd | cut -d: -f5 | tr "_" " " | tr "a-z"
"A-Z" > ksh_sellusers
alaa@alaa-1-2:~$
```

Q4)

Open ▾ [+]

users.txt

ksh_shellusers

```
NOOR KHAROUBI
KMALEDDIN SHAER
FIDA ZOHOUR
FATIMA AYYASH
DARIN JOJAS
```

alaa@alaa-1-2: ~

```
alaa@alaa-1-2:~$ grep -i /bin/bash/ prj2_passwd | tail -n 5 | cut -d: -f5 | tr "_"
" " " |tr "a-z" "A-Z" | sort -r >users.txt
alaa@alaa-1-2:~$ grep -i ':/bin/bash$' prj2_passwd | tail -n 5 | cut -d: -f5 | tr
 "_" " " |tr "a-z" "A-Z" | sort -r >users.txt
alaa@alaa-1-2:~$
```

Q5):

Abdallah
AbdelRahim
Ahlam
Ahmad
Amer
Atheer
Aya
Basil
Dalal
Fatima
Hammam
Hani
Ibraheem
Ibrahim
Isra
Marah
Mohammad
Mohammed
Mustafa
Noor
Rami
Rawan
Rebhiya
Reem
Saeed
Sondos
Tareq
Tarik
Yanai

```
alaa@alaa-1-2: ~  
alaa@alaa-1-2:~$ cut -d: -f5 prj2_passwd | grep -i [a-h]$ | cut -d_ -f1 | sort -  
u > a_hsorted.txt  
alaa@alaa-1-2:~$
```

Q6):

```
alaa@alaa-1-2: ~  
alaa@alaa-1-2:~$ grep -v /bin/ksh/ prj2_passwd | cut -d: -f5 | tr "a-z" "A-Z" |  
sort -k1 -t:  
  
ABDALLAH_HAMED  
ABDELRAHIM_AHMAD  
ADNAN_ASSALI  
AHLAM_GHAZAWNEH  
AHMAD_BASHEER  
AHMAD_GHANNAM  
AHMAD_JAMAL  
AHMAD_QASEM  
AHMAD_SALAH  
AHMAD_SALAH  
AHMAD_THABET  
ALAA_ZUBAIDI  
AMER_MOHAMMAD  
AREEJ_RIMAWI  
ATHEER_MOHAMMAD  
AYAH_SA'FIN  
AYA_KHATEEB  
BARA_IBRAHIM  
BASIL_AL-SA`ED  
DALAL_FUKHEDA  
DARIN_JOJAS
```

```
alaa@alaa-1-2: ~  
DARIN_JOJAS  
FAHD_HAMDAN,U1151429  
FARES_WHDAN  
FATIMA_AYYASH  
FIDA_ZOHOUR  
HAITHAM_IDREES  
HAMMAM_HAMED  
HANEEN_ASHKAR  
HANEEN_Taweel  
HANI_YAAQBEH  
IBRAHEEM_MOHAMMAD  
IBRAHIM_HAMDAN  
IBRAHIM_RIFAIE  
ISRA_HAMED  
ISRA_HAMED  
JEHAD_ALMUTAN  
JERIES_NASRAWI  
KAMALEDDIN_SHAER  
LAITH_AL-BUDEIRI  
MAHMOUD_ABDELKADER  
MALAK_HAMDAN  
MARAH_HAMAD  
MOHAMMAD_ALQAYEM  
MOHAMMAD_ASAD
```

```
alaa@alaa-1-2: ~  
MOHAMMAD_DAR-AHMAD  
MOHAMMAD_FITIANI  
MOHAMMAD_KAHALA  
MOHAMMAD_MOHAMMAD  
MOHAMMED_ISSA  
MOUSA_HAMDAN  
MUAYED_HAMDAN  
MUSTAFA_SALAH  
NADA_ZALLOUM  
NADER_ALBARGHOUTH  
NOOR_ABUHIJLEH  
NOOR_HMEIDAN  
NOOR_KHAROUBI  
RAMI_SALMAN  
RAMI_YAHYA  
RAMI_YAHYA  
RAWAN_ALIMI  
RAWAN_KHALAF  
RAWAN_SAFI  
REBHIYA_SBEIH  
REEM_SHAMASNAH  
ROA'A_INJASS  
SABRY_ALAWY  
SAEED_SABAH
```

```
alaa@alaa-1-2: ~  
RAMI_SALMAN  
RAMI_YAHYA  
RAMI_YAHYA  
RAWAN_ALIMI  
RAWAN_KHALAF  
RAWAN_SAFI  
REBHIYA_SBEIH  
REEM_SHAMASNAH  
ROA'A_INJASS  
SABRY_ALAWY  
SAEED_SABAH  
SALAH_HAMDAN  
SAMER_ALMASLOOT  
SHADI_HAMDANI  
SONDOS_AWASHRA  
SUHAIB_ABUGHANNAM  
TAQWA_HAMDAN  
TAREQ_QAHOUSH  
TARIK_SUID  
TAWFIQ_ABDULRAZIQ  
YANAL_ABDELJAWWAD  
YARA_HUSSIEN  
YAZEED_NOFAL  
alaa@alaa-1-2:~$
```

Q7)

```
u118.txt  
ksh_shellusers ksh_shelluserss  
File Has Changed on Disk  
The file has been changed by another program  
alaa@alaa-1-2:~$ grep u118 prj2_passwd | sort -t: -k3 -n -r | cut -d: -f5 | cut -  
d' ' -f1 > u118.txt  
alaa@alaa-1-2:~$
```

Q8):

```
alaa@alaa-1-2:~$ grep -L -r passwd /etc/ > Q8.txt
grep: /etc/cups/subscriptions.conf.0: Permission denied
grep: /etc/cups/subscriptions.conf: Permission denied
grep: /etc/cups/ssl: Permission denied
grep: /etc/credstore.encrypted: Permission denied
grep: /etc/cloud/cloud.cfg.d/90-installer-network.cfg: Permission denied
grep: /etc/cloud/cloud.cfg.d/99-installer.cfg: Permission denied
grep: /etc/gshadow: Permission denied
grep: /etc/ufw/user6.rules: Permission denied
grep: /etc/ufw/user.rules: Permission denied
grep: /etc/ufw/before.rules: Permission denied
grep: /etc/ufw/before.init: Permission denied
grep: /etc/ufw/after.rules: Permission denied
grep: /etc/ufw/before6.rules: Permission denied
grep: /etc/ufw/after.init: Permission denied
grep: /etc/ufw/after6.rules: Permission denied
grep: /etc/.pwd.lock: Permission denied
grep: /etc/security/opasswd: Permission denied
grep: /etc/ssl/private: Permission denied
grep: /etc/netplan/50-cloud-init.yaml: Permission denied
grep: /etc/shadow: Permission denied
grep: /etc/ppp/chap-secrets: Permission denied
grep: /etc/ppp/pap-secrets: Permission denied
grep: /etc/fwupd/fwupd.conf: Permission denied
grep: /etc/brlapi.key: Permission denied
grep: /etc/shadow-: Permission denied
grep: /etc/gshadow-: Permission denied
grep: /etc/sudoers: Permission denied
grep: /etc/sudoers.d/README: Permission denied
grep: /etc/polkit-1/rules.d: Permission denied
grep: /etc/ssh/ssh_host_ecdsa_key: Permission denied
grep: /etc/ssh/ssh_host_ed25519_key: Permission denied
grep: /etc/ssh/ssh_host_dsa_key: Permission denied
grep: /etc/ssh/ssh_host_rsa_key: Permission denied
grep: /etc/sssd: Permission denied
grep: /etc/credstore: Permission denied
alaa@alaa-1-2:~$
```

Q9):

```
find: /etc/credstore: Permission denied
0
alaa@alaa-1-2:~$ find /etc -name "[a-j]*" | wc -l
find: '/etc/cups/ssl': Permission denied
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/etc/sssd': Permission denied
find: '/etc/credstore': Permission denied
946
alaa@alaa-1-2:~$
```


Q10):

Try `cat help` for more information.

```
alaa@alaa-1-2:~$ grep comp322 prj2_passwd | cut -d: -f5 | cut -d" " -f1 | cut -c1 | tr -d "Xn" ; echo
```

A
D
M
I
A
M
S
D

```
alaa@alaa-1-2:~$
```