1. How do you edit the current user's crontab?

```
[moe404@localhost ~]$ crontab -e
no crontab for moe404 - using an empty one
crontab: installing new crontab
```

2. How do you list scheduled cron jobs for the current user?

```
[moe404@localhost ~]$ crontab -l
0 0 1 1 0 0 ~/script.sh
[moe404@localhost ~]$
```

3. How do you delete all cron jobs for the current user?

```
[moe404@localhost ~]$ crontab -r
[moe404@localhost ~]$ crontab -l
no crontab for moe404 _
```

- 4. Cron Syntax Questions
 - a. Schedule a job to run every day at 3:30 AM 30 3 * * * /script.sh
 - b. Run a script every Monday at 5:15 PM 15 17 * * 1 /script.sh
 - c. Execute a command every 10 minutes */10 * * * * /script.sh
 - d. Schedule a task to run every weekday (Mon-Fri) at 6:30 PM 30 18 * * 1-5 /script.sh
 - e. Run a job on the 1st and 15th of each month at 8:00 AM 0 8 1,15 * * /script.sh
- 5. How do you restrict users from using cron?

Add the username to /etc/cron.deny | echo "username" >> /etc/cron.deny 6. Set UserID

- a. Create File and Set Execution and setuid permission
- b. Check if setuid is enabled on File

```
[moe404@localhost ~]$ touch test.sh
[moe404@localhost ~]$ chmod u+s test.sh
[moe404@localhost ~]$ ls -l test.sh
-rwSr--r--. 1 moe404 moe404 0 Mar 28 17:55 test.sh
```

- 7. SetGroupID
 - a. Create directory testdir and set setgid
 - b. Check if setgid is enabled on directory
 - c. Logout and login as root
 - d. Create testfile in testdir and verify ownership

- 8. Stick bit
 - a. Create public directory dir1 with sticky bit
 - b. Check if sticky bit is enabled on directory
 - c. Logout and login as user1
 - d. Create userfile1 in dir1

```
[moe404@localhost /]$ sudo mkdir dir1
[moe404@localhost /]$ sudo chmod +t dir1
[moe404@localhost /]$ sudo ls -ld dir1/
drwxr-xr-t. 2 root root 6 Mar 28 23:02 dir1/
[moe404@localhost /]$ sudo touch dir1/userfile1
[moe404@localhost /]$
```

e. Login as user2 and attempt to remove userfile1

```
[test@localhost /]$ rm dir1/userfile1
rm: remove write-protected regular empty file 'dir1/userfile1'? y
rm: cannot remove 'dir1/userfile1': Permission denied
[test@localhost /]$
```

9. Give user john read and write permissions on myfile.txt

```
[moe404@localhost ~]$ setfacl -m u:test:rw script.sh
```

10. How to view the ACL of a file named myfile.txt?

```
[moe404@localhost ~]$ getfacl script.sh
# file: script.sh
# owner: moe404
# group: moe404
user::rwx
user:test:rw-
group::r--
mask::rw-
other::r--
```

11. How do you give the group developers execute permissions on the directory /home/user/documents

```
[moe404@localhost ~]$ setfacl -m g:developers:x /home/moe404/Documents
```

12. How to remove the ACL entry for the user john on the file file1.txt?

```
[moe404@localhost ~]$ setfacl -x u:test script.sh
```

13. How do you set a default ACL for a directory so that all new files and directories created inside it inherit the same permissions?

```
[moe404@localhost ~]$ sudo setfacl -d -m u:test:rwx /dir1/
[sudo] password for moe404:
[moe404@localhost ~]$
```

14. Allow group developers to read all files in ~/Music recursively

```
[moe404@localhost ~]$ setfacl -R -m g:developers:r ~/Music
```

15.How to remove all ACLs from the file file1.txt and revert to the standard Unix permissions? [moe404@localhost ~]\$ setfacl -b script.sh

16.Set a mask on myfile.txt to limit all non-owners to r--.

[moe404@localhost ~]\$ setfacl -m m::r-- script.sh

17. How would you allow user 'alice' to run only the 'yum' command as root?

```
[moe404@localhost ~]$ su root
Password:
[root@localhost moe404]# echo "alice ALL=(ALL) NOPASSWD: /usr/bin/yum" >> /etc/sudoers
[root@localhost moe404]#
```

18. How would you allow a group 'developers' to run any command as root without a password?

[root@localhost moe404]# echo "%developers ALL=(ALL) NOPASSWD: ALL" >> /etc/sudoers
[root@localhost moe404]#