

NAME: SAIF UR REHMAN (2303.KHI.DEG.007)

Partner: MAVIA ALAM KHAN (2303.KHI.DEG.017)

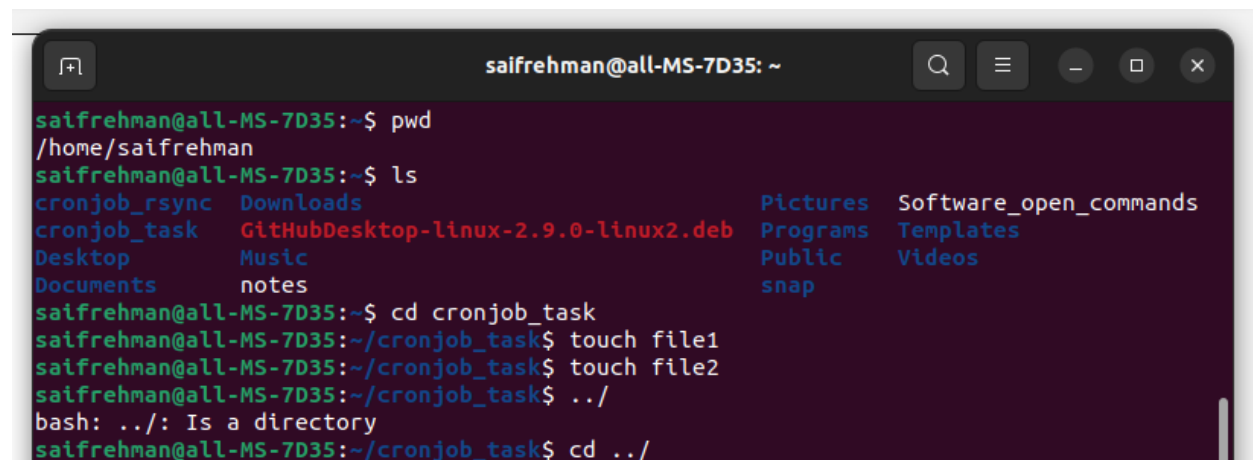
Assignment Question:

- On a Linux server setup, a cron job for copying example data with *rsync* periodically.
- Ensure the copying is handled in the background and independently of the user session.

Step 1: Manually create two directories

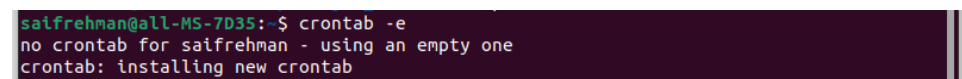
- 1) **cronjob_task**
- 2) **cronjob_rsync**

Step 2: Create two files in **cronjob_task** directory



```
saifrehman@all-MS-7D35: ~  
saifrehman@all-MS-7D35:~$ pwd  
/home/saifrehman  
saifrehman@all-MS-7D35:~$ ls  
cronjob_rsync  Downloads  Pictures  Software_open_commands  
cronjob_task   GitHubDesktop-linux-2.9.0-linux2.deb  Programs  Templates  
Desktop        Music      Public    Videos  
Documents      notes     snap  
saifrehman@all-MS-7D35:~$ cd cronjob_task  
saifrehman@all-MS-7D35:~/cronjob_task$ touch file1  
saifrehman@all-MS-7D35:~/cronjob_task$ touch file2  
saifrehman@all-MS-7D35:~/cronjob_task$ ../  
bash: ../: Is a directory  
saifrehman@all-MS-7D35:~/cronjob_task$ cd ../
```

Step 3: Look there is no cronjob running



```
saifrehman@all-MS-7D35:~$ crontab -e  
no crontab for saifrehman - using an empty one  
crontab: installing new crontab
```

Step 4: Using rsync to backup files those above created files

```
saifrehman@all-MS-7035:~$ crontab -l
# 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:
# 0 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
* * * * * rsync /home/saifrehman/cronjob_task/* /home/saifrehman/cronjob_rsync/
```

Result:

