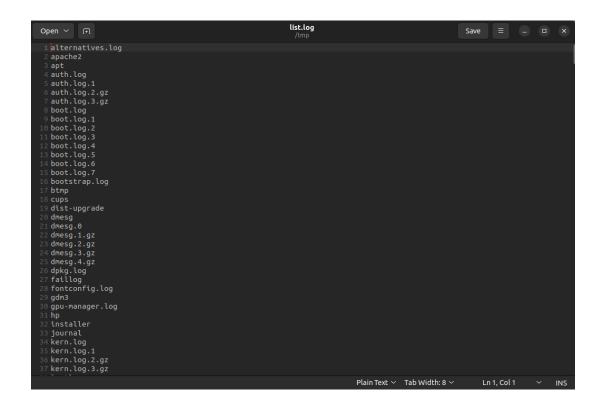
1- create script to list all files in /var/log every 5 seconds and append the list to /tmp/list.log file

```
tahoun@tahoun-VirtualBox:~$ touch myScript.sh
tahoun@tahoun-VirtualBox:~$ ls
Clockalarm.conf Documents Music Pictures Templates
'commands lec 1' Downloads myScript.sh Public Videos
Desktop iti-0 os_team_workspace snap
tahoun@tahoun-VirtualBox:~$ nano myScript.sh
```

```
myScript.sh
 GNU nano 6.2
while true
do
        ls /var/log >> /tmp/list.log
        sleep 5
done
                                [ Read 6 lines ]
             ^O Write Out ^W Where Is
                                       ^K Cut
                                                                  ^C Location
                                                       Execute
                                                        Justify
  Exit
             ^R Read File ^\ Replace
                                                                     Go To Line
tahoun@tahoun-VirtualBox:~$ cd /tmp
tahoun@tahoun-VirtualBox:/tmp$ touch list.log
tahoun@tahoun-VirtualBox:/tmp$ cd ~
```

tahoun@tahoun-VirtualBox:~\$ bash myScript.sh

^C



2- copy the script to /usr/local/bin directory and set the execution attribute to it

```
tahoun@tahoun-VirtualBox: /usr/local/bin
 JŦ1
                                          tahoun@tahoun-VirtualBox: /usr/local/bin
      tahoun@tahoun-VirtualBox: /tmp
tahoun@tahoun-VirtualBox:/tmp$ cd ~
tahoun@tahoun-VirtualBox:~$ sudo cp myScript.sh /usr/local/bin
[sudo] password for tahoun:
tahoun@tahoun-VirtualBox:~$ cd /usr/local/bin
tahoun@tahoun-VirtualBox:/usr/local/bin$ ls
nyScript.sh script.sh
tahoun@tahoun-VirtualBox:/usr/local/bin$ cat myScript.sh
#! /bin/sh
while true
ob
        ls /var/log >> /tmp/list.log
        sleep 5
lone
tahoun@tahoun-VirtualBox:/usr/local/bin$ sudo chmod +x myScript.sh
tahoun@tahoun-VirtualBox:/usr/local/bin$ myScript.sh
```

3- create systemd service file to execute the the script as background service

```
tahoun@tahoun-VirtualBox:~$ nano newService.service
tahoun@tahoun-VirtualBox:~$ sudo cp newService.service /etc/systemd/system/
[sudo] password for tahoun:
tahoun@tahoun-VirtualBox:~$ cd /etc/systemd/system
tahoun@tahoun-VirtualBox:/etc/systemd/system$ sudo service newService start
tahoun@tahoun-VirtualBox:/etc/systemd/system$ sudo service newService status
newService.service - myScript service
    Loaded: loaded (/etc/systemd/system/newService.service; disabled; vendor p>
    Active: active (running) since Mon 2023-02-27 21:34:52 EET; 37s ago
  Main PID: 17973 (bash)
    Tasks: 2 (limit: 5189)
Memory: 564.0K
       CPU: 20ms
    CGroup: /system.slice/newService.service
             -17973 /bin/bash /usr/local/bin/script.sh
-17991 sleep 5
tahoun-VirtualBox systemd[1]: Started myScript service. فبر 21:34:52
<br/>tahoun-VirtualBox bash[17974]: /usr/local/bin/script.sh: line 4> فبر 21:34:52
tahoun-VirtualBox bash[17976]: /usr/local/bin/script.sh: line 4 فبر 21:34:57
tahoun-VirtualBox bash[17980]: /usr/local/bin/script.sh: line 4 فبر 21:35:02
tahoun-VirtualBox bash[17982]: /usr/local/bin/script.sh: line 4 فبرَ 21:35:07
tahoun-VirtualBox bash[17984]: /usr/local/bin/script.sh: line 4 فبر 21 21:35:12
tahoun-VirtualBox bash[17986]: /usr/local/bin/script.sh: line فير 21:35:17
```

4- using cron, schedule a job every 5 minutes to copy /tmp/list.log file to /tmp/list.log.1 and compress the file using zip command

tahoun@tahoun-VirtualBox:~\$ crontab -e
no crontab for tahoun - using an empty one
crontab: installing new crontab

```
CNU nano 6.2 /tmp/crontab.Fb5M7v/crontab

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.

to output of the crontab jobs (including errors) is sent through

temail to the user the crontab field belongs to (unless redirected).

for example, you can run a backup of all your user accounts

at 5 a.m every week with:

at 5 * 1 tar -zcf /var/backups/home.tgz /home/

for more information see the manual pages of crontab(5) and cron(8)

to the dom mon dow command

for * * * * cp -r /tmp/list.log /tmp/list.log.1; zip list.log.1.zip list.log.1
```