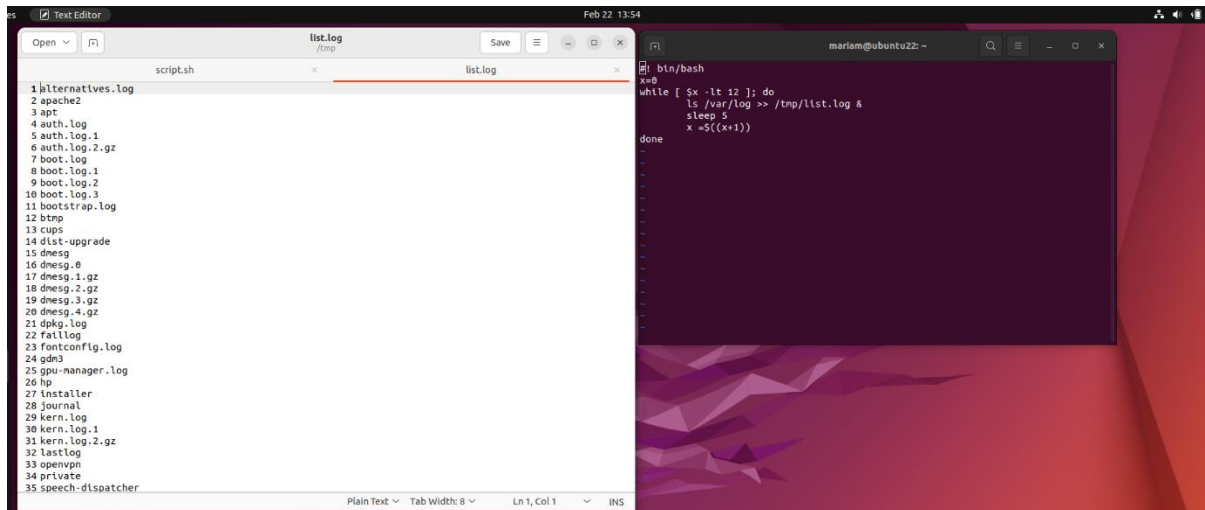


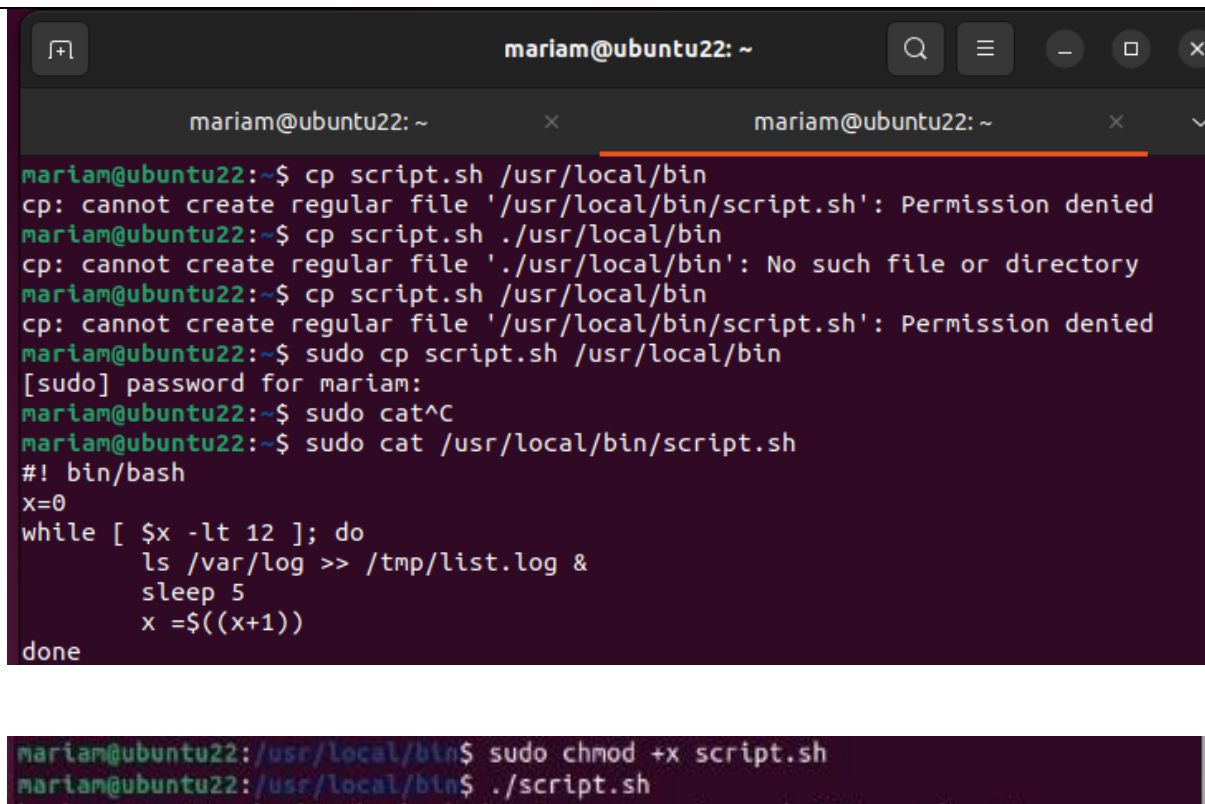
create script to list all files in `/var/log` every 5 seconds and append the list to `/tmp/list.log` file



```
1 alternatives.log
2 apache2
3 apt
4 auth.log
5 auth.log.1
6 auth.log.2.gz
7 boot.log
8 boot.log.1
9 boot.log.2
10 boot.log.3
11 bootstrap.log
12 btmp
13 cups
14 dist-upgrade
15 dmesg
16 dmesg.0
17 dmesg.1.gz
18 dmesg.2.gz
19 dmesg.3.gz
20 dmesg.4.gz
21 dpkg.log
22 faillog
23 fontconfig.log
24 gdm3
25 gpu-manager.log
26 hp
27 installer
28 journal
29 kern.log
30 kern.log.1
31 kern.log.2.gz
32 lastlog
33 openvpn
34 private
35 speech-dispatcher
```

```
#!/bin/bash
x=0
while [ $x -lt 12 ]; do
    ls /var/log >> /tmp/list.log &
    sleep 5
    x=$((x+1))
done
```

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



```
mariam@ubuntu22: ~
mariam@ubuntu22: ~
mariam@ubuntu22:~$ cp script.sh /usr/local/bin
cp: cannot create regular file '/usr/local/bin/script.sh': Permission denied
mariam@ubuntu22:~$ cp script.sh ./usr/local/bin
cp: cannot create regular file './usr/local/bin': No such file or directory
mariam@ubuntu22:~$ cp script.sh /usr/local/bin
cp: cannot create regular file '/usr/local/bin/script.sh': Permission denied
mariam@ubuntu22:~$ sudo cp script.sh /usr/local/bin
[sudo] password for mariam:
mariam@ubuntu22:~$ sudo cat^C
mariam@ubuntu22:~$ sudo cat /usr/local/bin/script.sh
#!/bin/bash
x=0
while [ $x -lt 12 ]; do
    ls /var/log >> /tmp/list.log &
    sleep 5
    x=$((x+1))
done
mariam@ubuntu22:/usr/local/bin$ sudo chmod +x script.sh
mariam@ubuntu22:/usr/local/bin$ ./script.sh
```

## create systemd service file to execute the the script as background service

```
marlam@ubuntu22: /etc/systemd/system
oc/help.txt.vim-tiny by vim-runtime'
Adding 'diversion of /usr/share/vim/vim82/doc/tags to /usr/share/vim/vim82/doc/t
ags.vim-tiny by vim-runtime'
Unpacking vim-runtime (2:8.2.3995-1ubuntu2.3) ...
Selecting previously unselected package vim.
Preparing to unpack .../vim_2%3a8.2.3995-1ubuntu2.3_amd64.deb ...
Unpacking vim (2:8.2.3995-1ubuntu2.3) ...
Setting up vim-runtime (2:8.2.3995-1ubuntu2.3) ...
Setting up vim (2:8.2.3995-1ubuntu2.3) ...
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vim (vim) in a
uto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vimdiff (vimdi
ff) in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rvim (rvim) in
 auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/rview (rview)
in auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/vi (vi) in aut
o mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/view (view) in
 auto mode
update-alternatives: using /usr/bin/vim.basic to provide /usr/bin/ex (ex) in aut
o mode
Processing triggers for man-db (2.10.2-1) ...
marlam@ubuntu22:~$ touch ser.service
Command 'touch' not found, did you mean:
  command 'loch' from deb therion-viewer (6.0.5-1)
  command 'touch' from deb coreutils (8.32-4.1ubuntu1)
Try: sudo apt install <deb name>
marlam@ubuntu22:~$ touch ser.service
marlam@ubuntu22:~$ sudo cp ser.service /etc/systemd/system/
marlam@ubuntu22:~$ cd /etc/systemd/system/
marlam@ubuntu22:/etc/systemd/system$ sudo systemctl daemon-reload
marlam@ubuntu22:/etc/systemd/system$ sudo service ser start
marlam@ubuntu22:/etc/systemd/system$
```

```
marlam@ubuntu22:/etc/systemd/system$ sudo service ser status
● ser.service
   Loaded: loaded (/etc/systemd/system/ser.service; disabled; vendor preset: enabled)
   Active: active (running) since Wed 2023-02-22 14:55:23 EET; 5min ago
     Main PID: 6019 (script.sh)
        Tasks: 2 (limit: 4545)
       Memory: 564.0K
          CPU: 230ms
      CGroup: /system.slice/ser.service
              └─6019 bin/bash /usr/local/bin/script.sh
                 └─6585 sleep 5

Feb 22 15:00:03 ubuntu22 script.sh[6566]: /usr/local/bin/script.sh: line 4: /tmp/list.log: Permission denied
Feb 22 15:00:08 ubuntu22 script.sh[6574]: /usr/local/bin/script.sh: line 6: x: command not found
Feb 22 15:00:08 ubuntu22 script.sh[6575]: /usr/local/bin/script.sh: line 4: /tmp/list.log: Permission denied
Feb 22 15:00:13 ubuntu22 script.sh[6577]: /usr/local/bin/script.sh: line 6: x: command not found
Feb 22 15:00:13 ubuntu22 script.sh[6578]: /usr/local/bin/script.sh: line 4: /tmp/list.log: Permission denied
Feb 22 15:00:18 ubuntu22 script.sh[6580]: /usr/local/bin/script.sh: line 6: x: command not found
Feb 22 15:00:18 ubuntu22 script.sh[6581]: /usr/local/bin/script.sh: line 4: /tmp/list.log: Permission denied
Feb 22 15:00:23 ubuntu22 script.sh[6583]: /usr/local/bin/script.sh: line 6: x: command not found
Feb 22 15:00:23 ubuntu22 script.sh[6584]: /usr/local/bin/script.sh: line 4: /tmp/list.log: Permission denied
Feb 22 15:00:26 ubuntu22 systemd[1]: /etc/systemd/system/ser.service:1: Unknown section 'unit'. Ignoring.
marlam@ubuntu22:/etc/systemd/system$
```

```
Open  [icon] *ser.service Save [icon] [icon] [icon] [icon]
1 [unit]
2 Description: bgprocess
3 After=syslog.target.network.target
4
5 [Service]
6 Type=simple
7 User=root
8 ExecStart=/usr/local/bin/script.sh
9 Restart=on.abort
10
11 [Install]
12 WantedBy=multi-user.target
13
14
```

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

