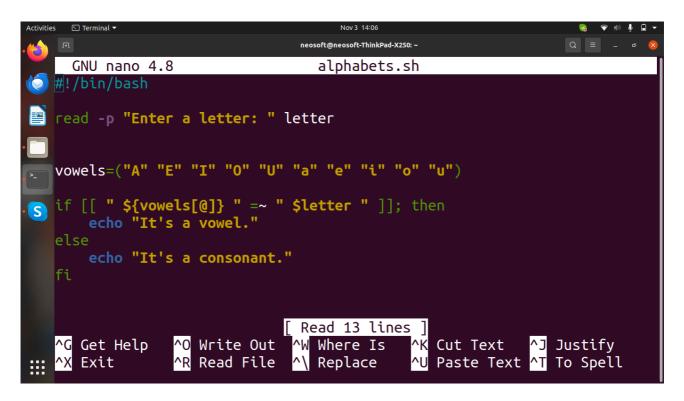
BASH SCRIPTING LOOPS AND CONDITIONS

1. Create a bash script which will take alphabet as input and will check if the input is a consonent or vowel.



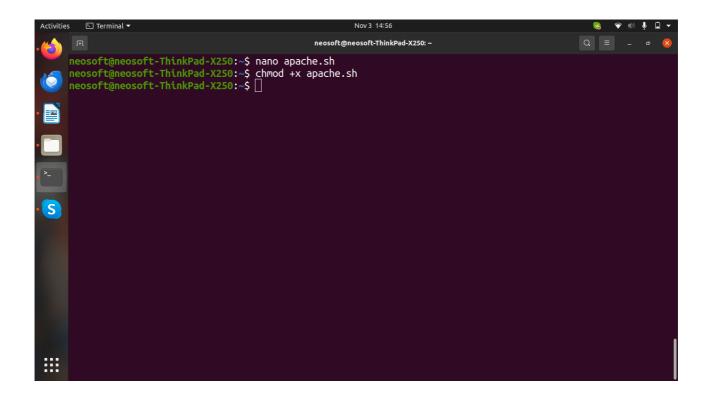


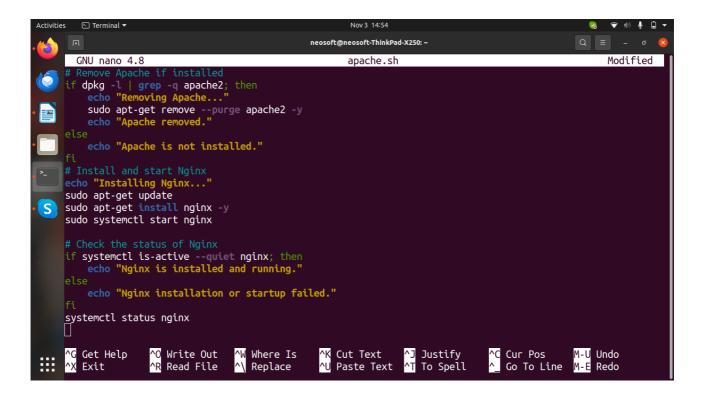
[[...]] is used for conditional tests.

\${vowels[@]} is used to expand the **vowels** array into a list of its elements.

=~ is a pattern matching operator

2. Create a bash script which will check if the apache is installed; if installed it will remove the apache and will install nginx.





Explaining the script:

if dpkg -l | grep -q apache2; then

this command is used to list all the packages on the system and finding the 'apache2'

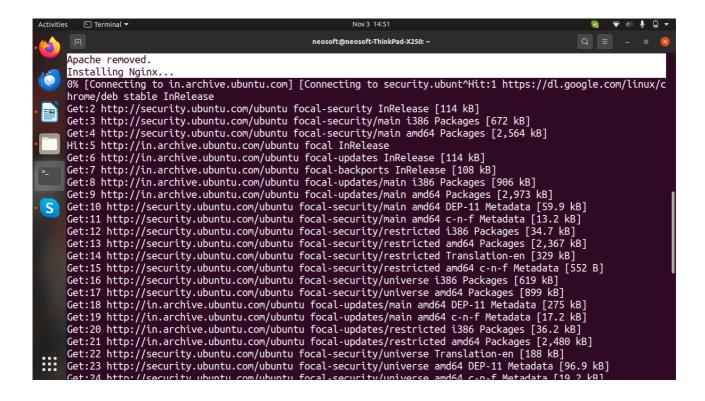
- sudo apt-get remove --purge apache2 -y:
 if apache package is found then with this command it
 is removed
- After removing the apache message is displayed that Apache is removed and the nginx is installed by the command:

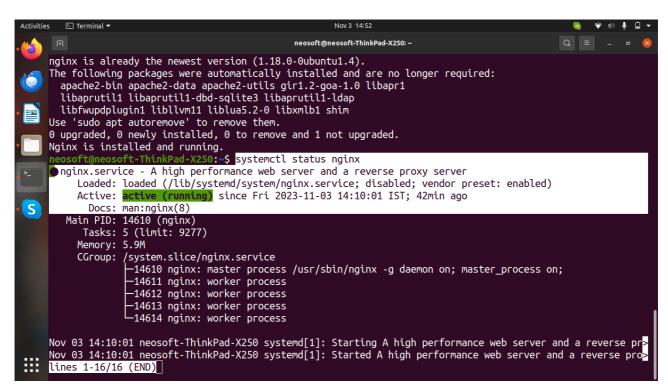
sudo apt-get install nginx -y sudo systemctl start nginx

```
neosoft@neosoft-ThinkPad-X250:-$ ./apache.sh
Removing Apache...

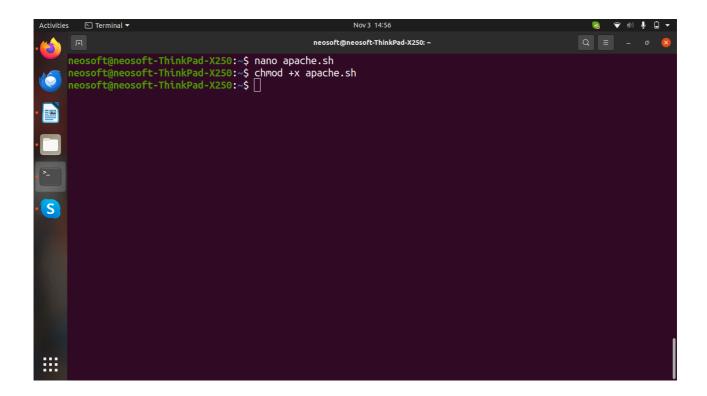
[sudo] password for neosoft:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
apache2-btn apache2-data apache2-utils gir1.2-goa-1.0 libapr1
libaprutil1 libaprutil1-ddb-sqlite3 libaprutil1-ldap
libfwupdplugin1 libllvm11 liblua5.2-0 libxmlb1 shim
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
apache2*
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 544 kB disk space will be freed.
(Reading database ... 194286 files and directories currently installed.)
Removing apache2 (2.4.41-4ubuntu3.14) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for apache2 (2.4.41-4ubuntu3.14) ...
dpkg: warning: while removing apache2 (2.4.41-4ubuntu3.14) ...
dpkg: warning: while removing apache2, directory '/etc/apache2' not empty so not removed
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for ufw (0.36-6ubuntu1.1) ...
Apache removed.
Installing Nginx...

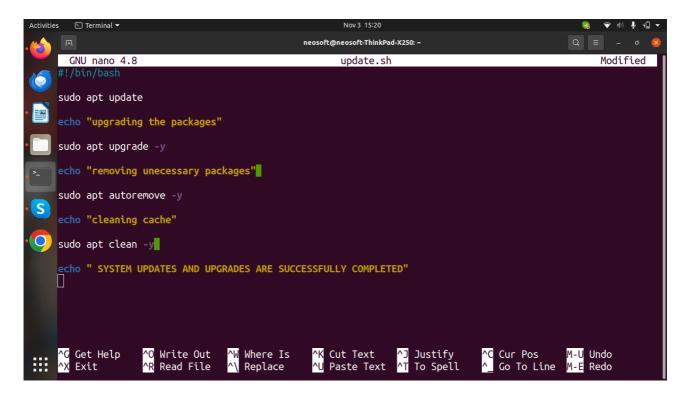
Of Connection to in archive ubuntu coml [Connection to security ubunt\(^2+1:1 https://dl.google.com/lipux/c
```

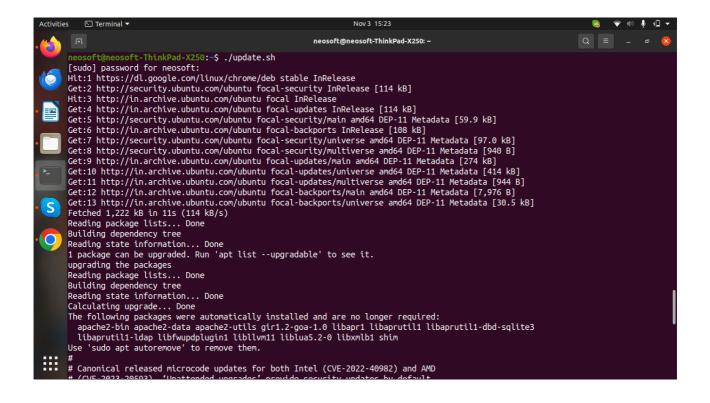


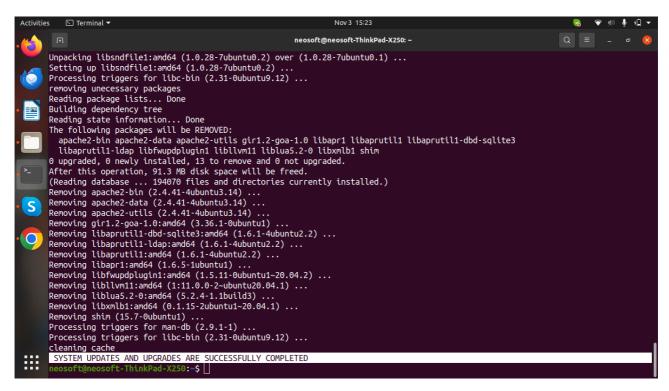


3. Create a bsah script which will check the linux distribution and will execute update commands for the specific distribution.

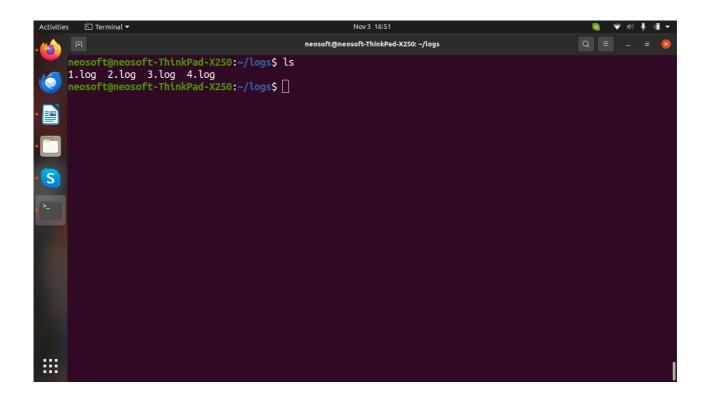






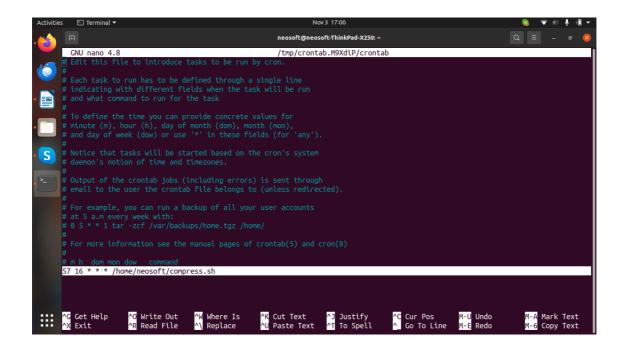


4. Create a bash script which will compress all the files in a specific directory which have .log as extension. Also add a cronjob which will execute at a certain time.



```
    Terminal ▼

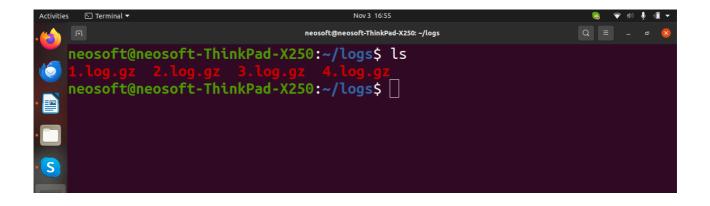
                                                                         neosoft@neosoft-ThinkPad-X250: ~
        GNU nano 4.8
                                                                                  compress.sh
      log_directory=/home/neosoft/logs/
      # Check if the directory exists
if [ -d "$log_directory" ]; then
    # Change to the log directory
            cd "$log_directory
S
            # Compress all .log files
            for log_file in *.log; do
    if [ -f "$log_file" ]; then
        sudo gzip "$log_file"
                        echo "Compressed $log_file"
            echo "Directory not found: $log_directory"
                                                    ^W Where Is
^\ Replace
                                                                                                                                                 M-U Undo
M-E Redo
     ^G Get Help
^X Exit
                                                                            ^K Cut Text
^U Paste Text
                                                                                                   ^J Justify
^T To Spell
                                                                                                                          ^C Cur Pos
^_ Go To Line
                             ^O Write Out
                             ^R Read File
```



Mentioning the time when the script should be executed.

```
Activities Terminal Process Terminal Pro
```

- Specifying the path where the log files are stored
- Compressing the files ending with .log using gzip



The files are compressed using the script and executing at specific time with the help of crontab.