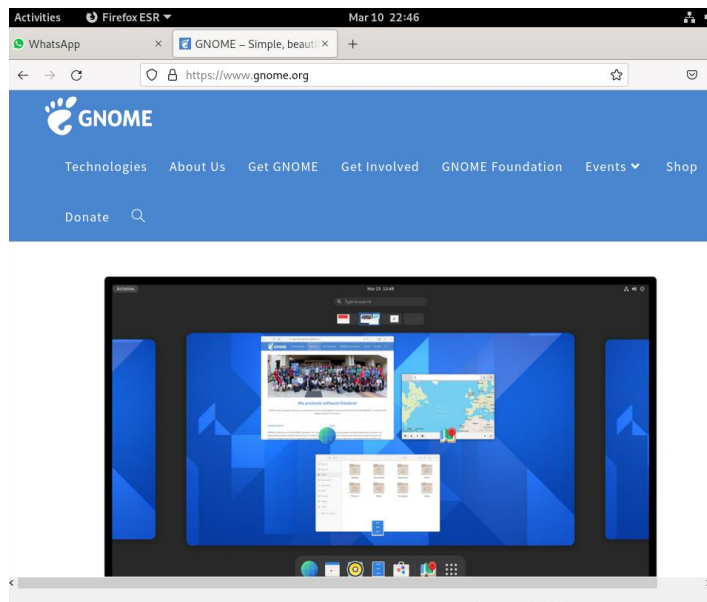
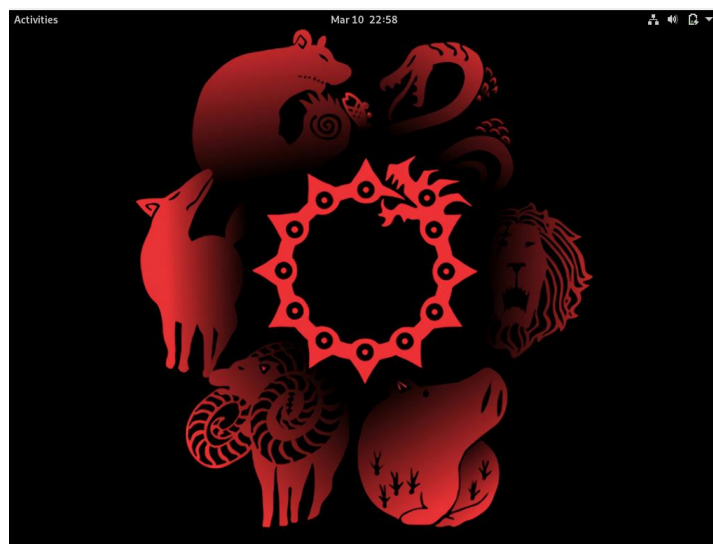


## Task 1

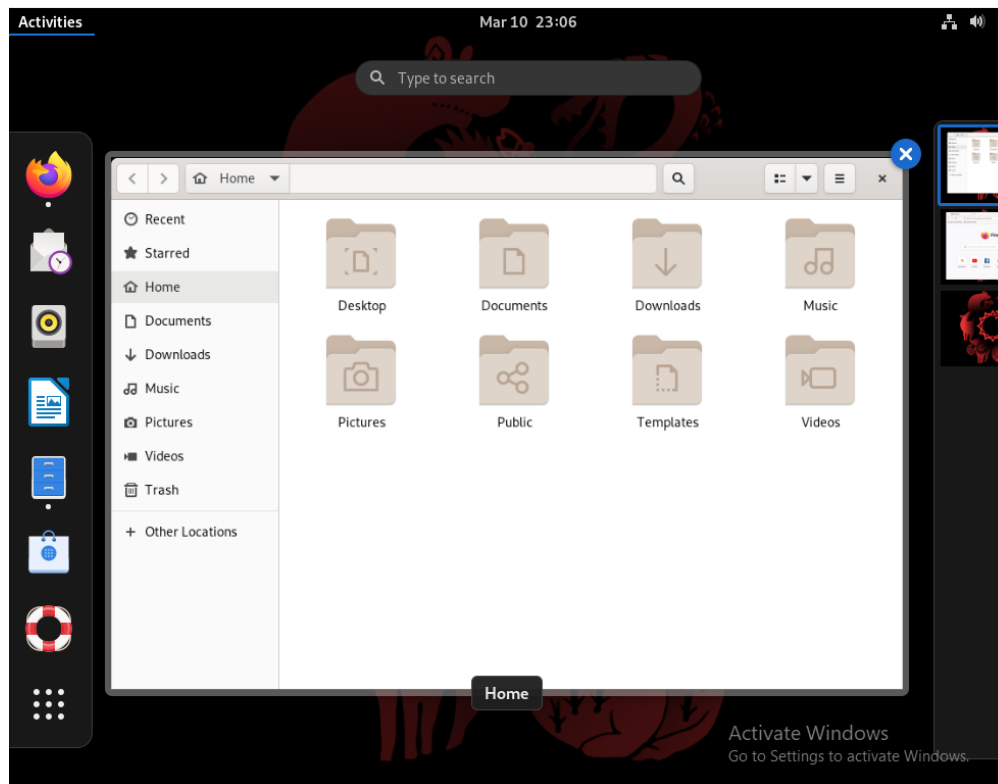
Task 1.1)-> [www.gnome.org](https://www.gnome.org) home page:



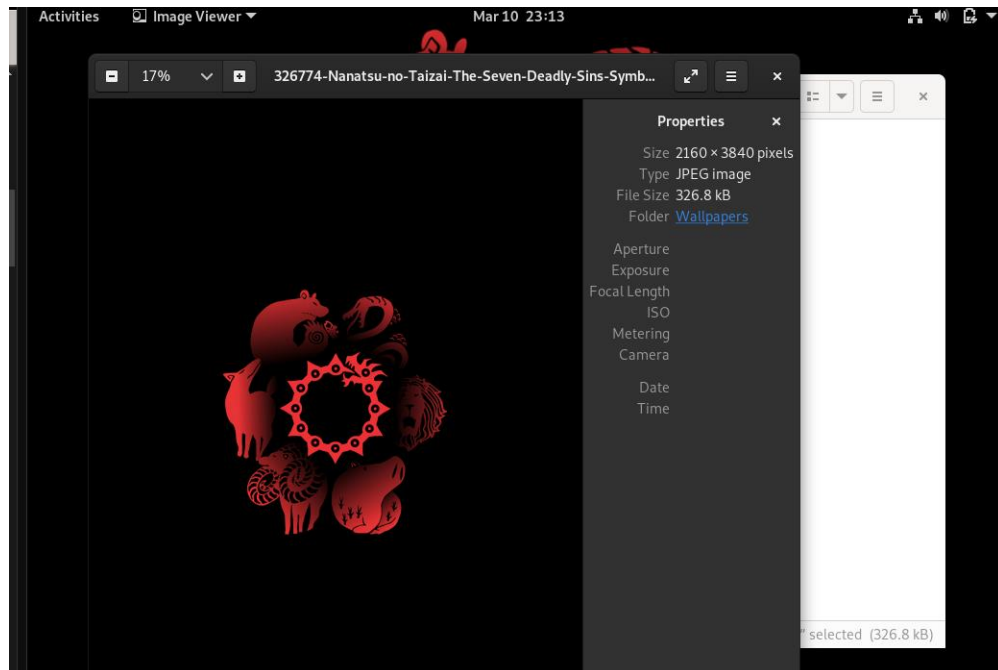
Task 1.2) -> After downloading the chosen background image from the web, right clicked file folder and then selected it to choose set as wallpaper



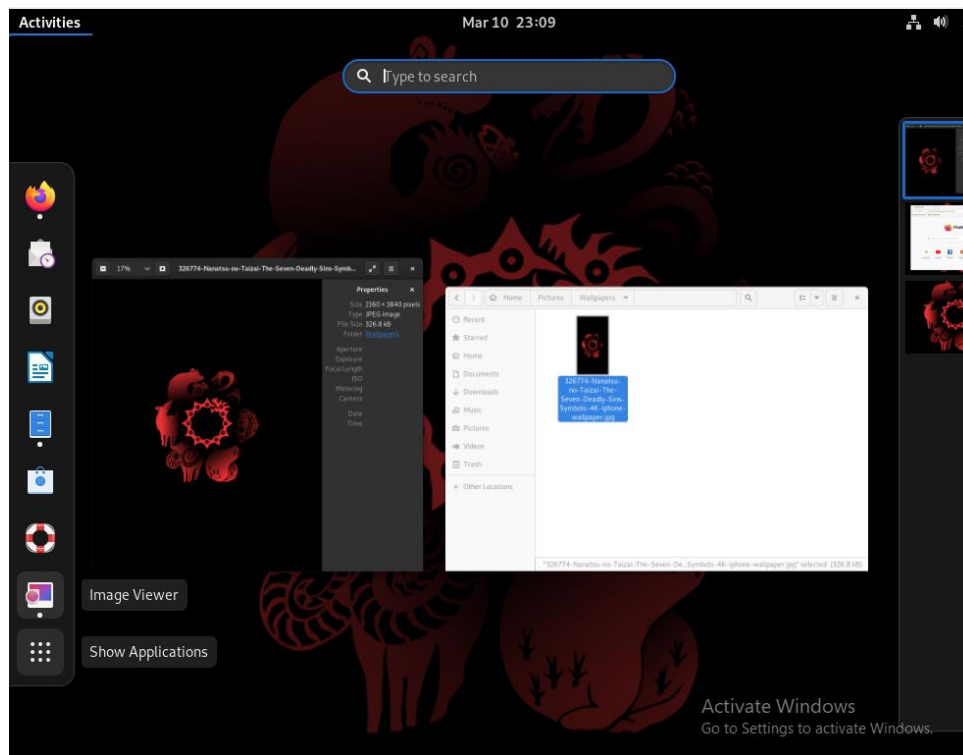
Task 1.3) -> window key to move second workspace.



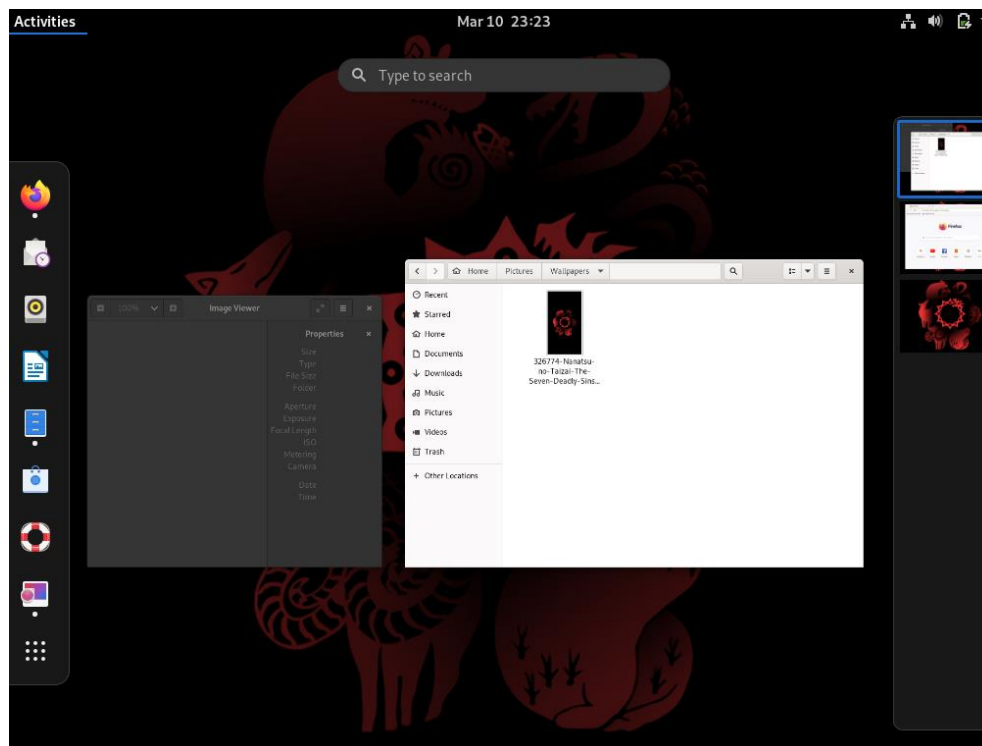
Task 1.4) -> Image to open it in an image viewer.



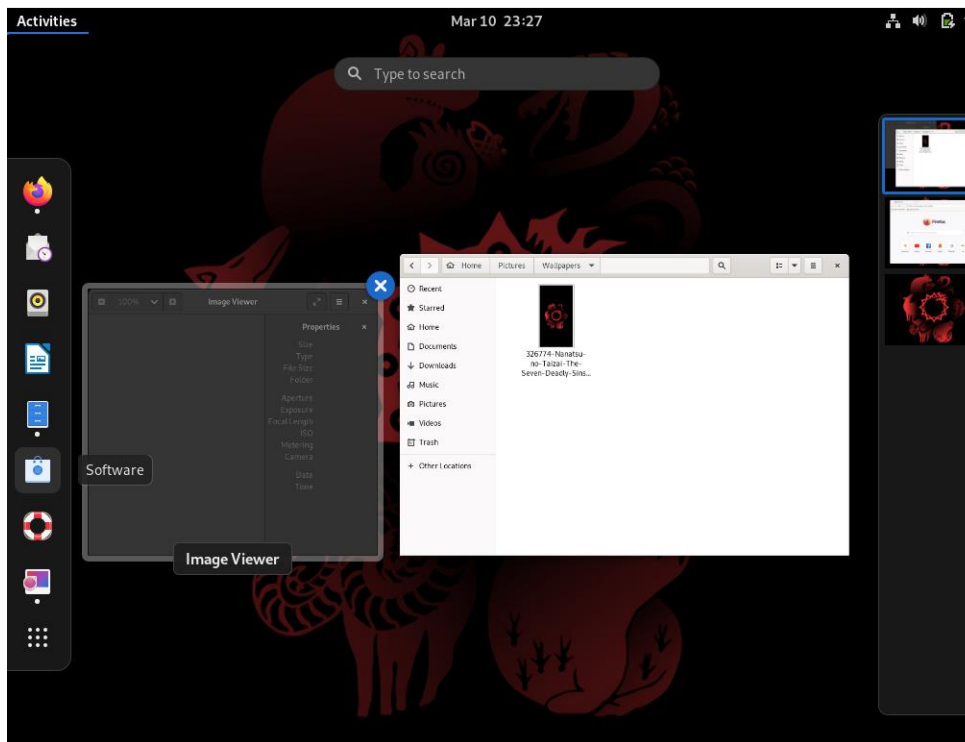
## Task 1.5)



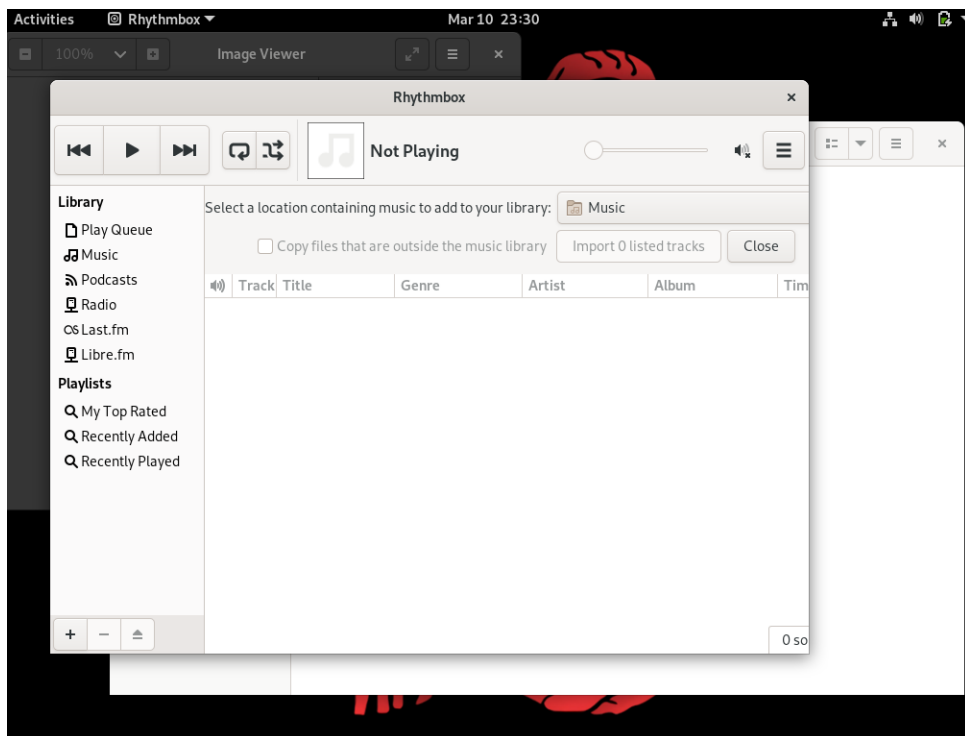
## Task 1.6)



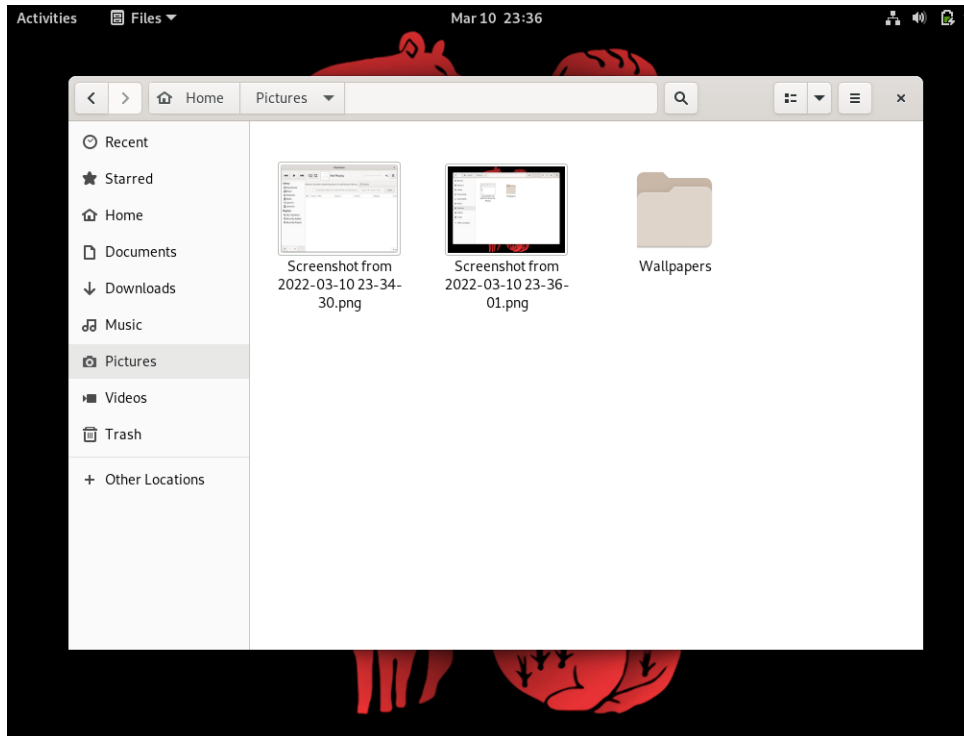
Task 1.7) -> Here I am showing the highlight the application that you want with pressing alt tab



Task 1.8) -> Here is I am showing the screenshot of rhythmbox window:



Task 1.9) -> Here is I am showing the two version of taking screenshots of whether entire desktop or just the current window.



## Task 2)

### Task 2.1 a-b)

```
Login incorrect
Berkay login: berkayberber
Password:
Linux Berkay 5.10.0-11-amd64 #1 SMP Debian 5.10.92-2 (2022-02-28) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Mar 11 14:21:50 CET 2022 on tty3
berkayberber@Berkay:~$
```

## Task 2.1 c-d) -> after the commands, typed exit to be back to login prompt

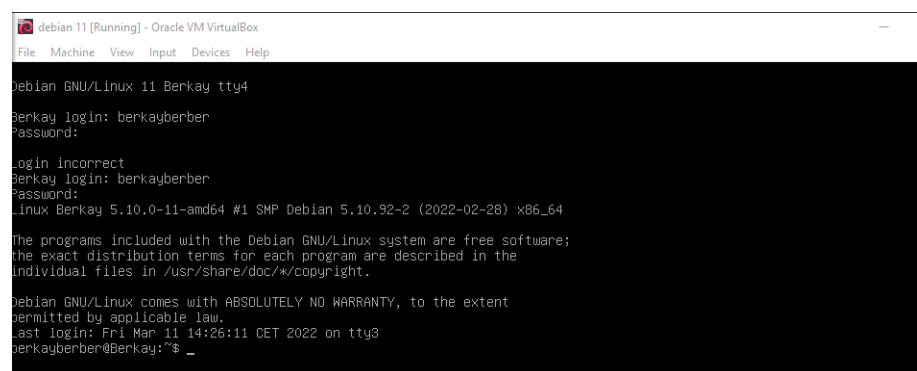
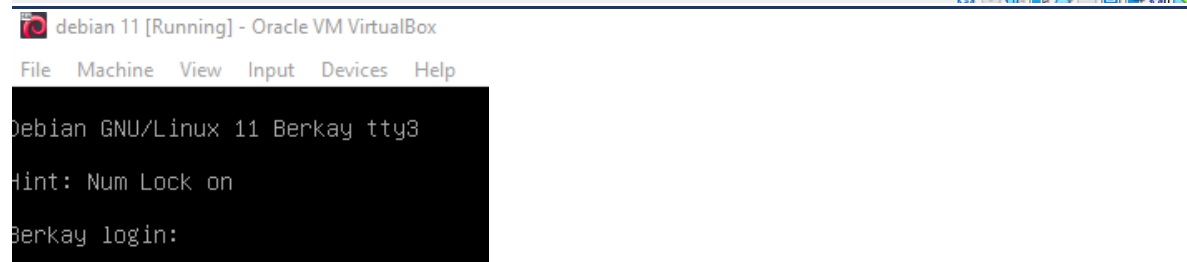
```
Debian GNU/Linux 11 Berkay tty3

Hint: Num Lock on

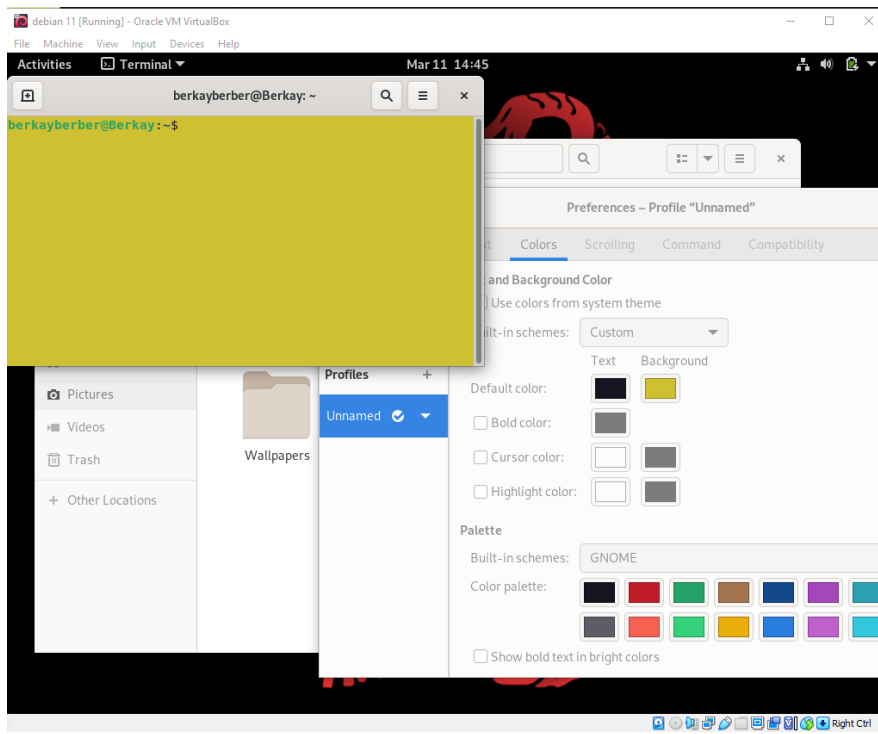
Berkay login: berkayberber
Password:
Linux Berkay 5.10.0-11-amd64 #1 SMP Debian 5.10.92-2 (2022-02-28) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

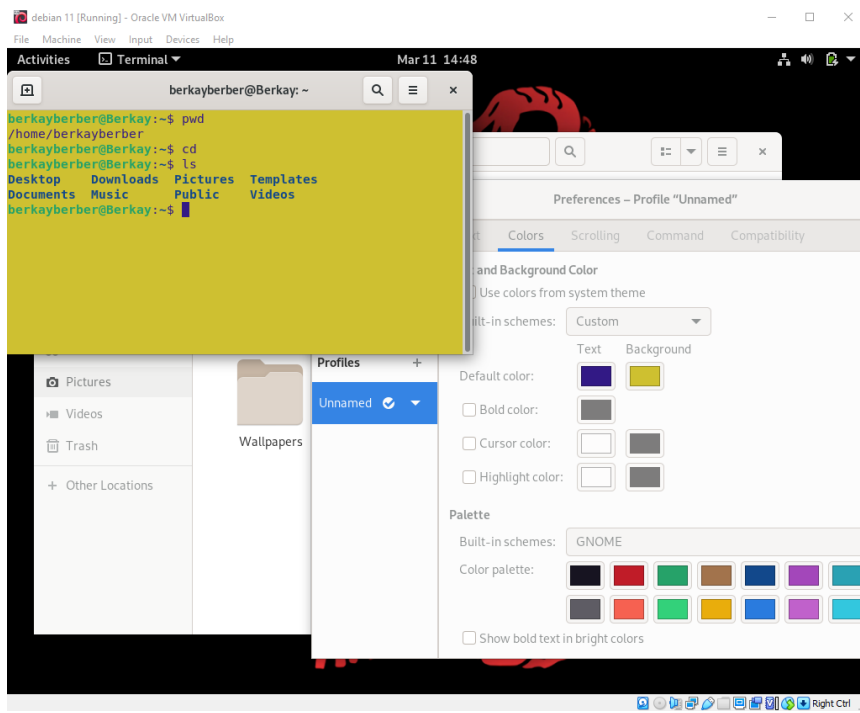
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Mar 11 14:19:17 CET 2022 on tty3
berkayberber@Berkay:~$ whoami
berkayberber
berkayberber@Berkay:~$ pwd
/home/berkayberber
berkayberber@Berkay:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
berkayberber@Berkay:~$ cd Pictures
berkayberber@Berkay:~/Pictures$ pwd
/home/berkayberber/Pictures
berkayberber@Berkay:~/Pictures$ ls -l
total 136
-rw-r--r-- 1 berkayberber berkayberber 50038 Mar 10 23:34 'Screenshot from 2022-03-10 23-34-30.png'
-rw-r--r-- 1 berkayberber berkayberber 79797 Mar 10 23:36 'Screenshot from 2022-03-10 23-36-01.png'
drwxr-xr-x 2 berkayberber berkayberber 4096 Mar 10 22:55 Wallpapers
berkayberber@Berkay:~/Pictures$ ls
'Screenshot from 2022-03-10 23-34-30.png' 'Screenshot from 2022-03-10 23-36-01.png' Wallpapers
berkayberber@Berkay:~/Pictures$ touch Wallpapers
berkayberber@Berkay:~/Pictures$ ls
'Screenshot from 2022-03-10 23-34-30.png' 'Screenshot from 2022-03-10 23-36-01.png' Wallpapers
berkayberber@Berkay:~/Pictures$ touch file1
berkayberber@Berkay:~/Pictures$ touch file2
berkayberber@Berkay:~/Pictures$ ls
file1 file2 'Screenshot from 2022-03-10 23-34-30.png' 'Screenshot from 2022-03-10 23-36-01.png' Wallpapers
berkayberber@Berkay:~/Pictures$ _
```



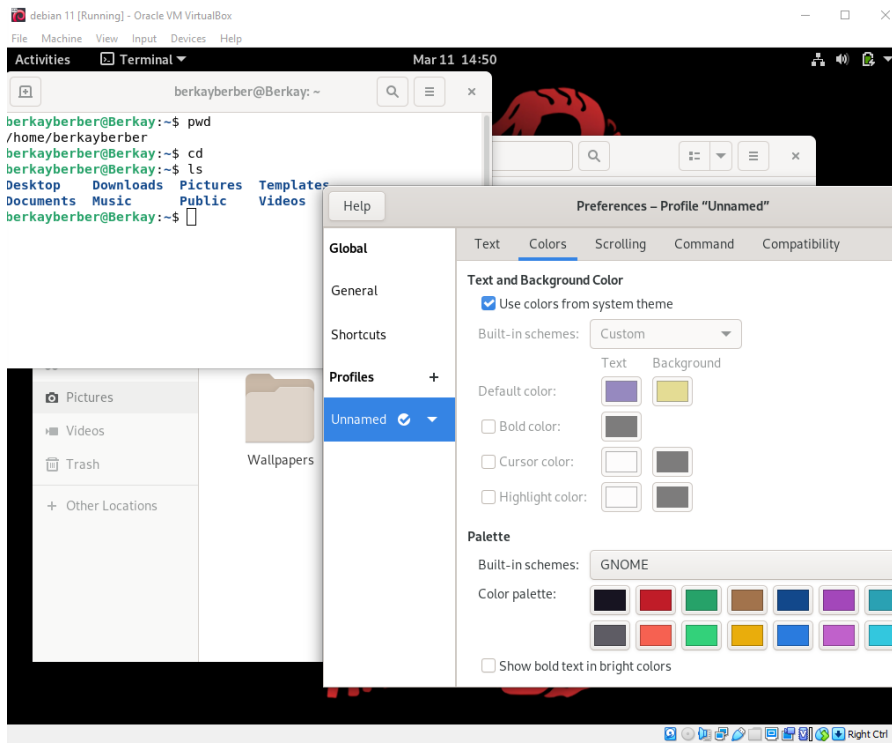
Task 2.2) -> we are able to customize the background color and the text of my terminal here is below task2.2.abcd



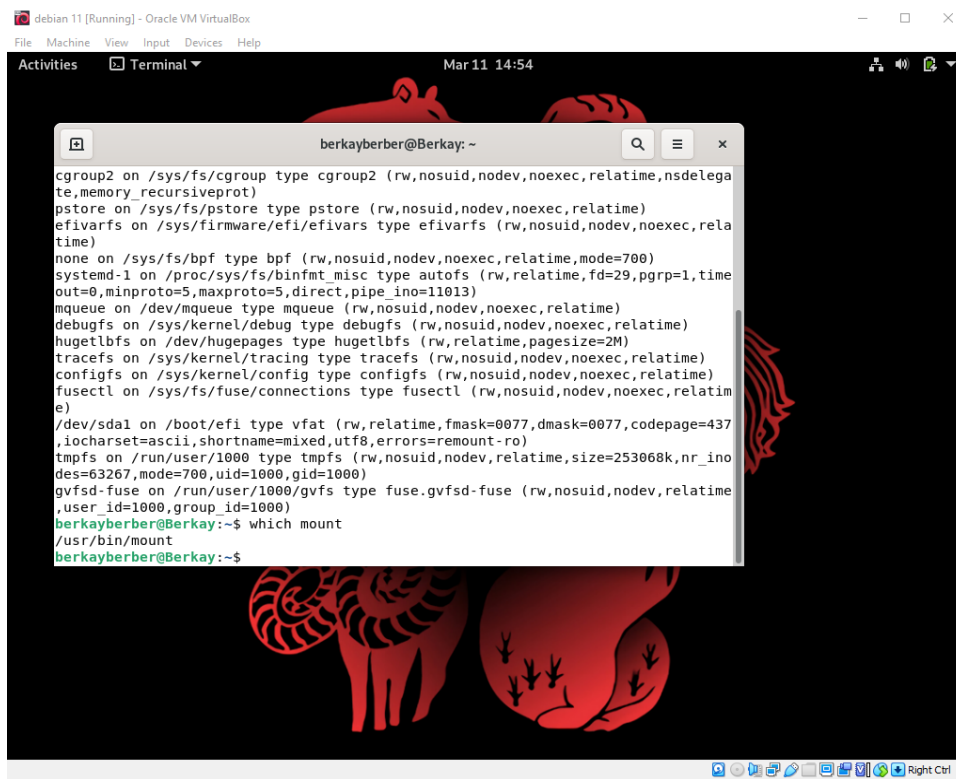
Task 2.2.f)



## Task 2.2.g) -> default Terminal colors

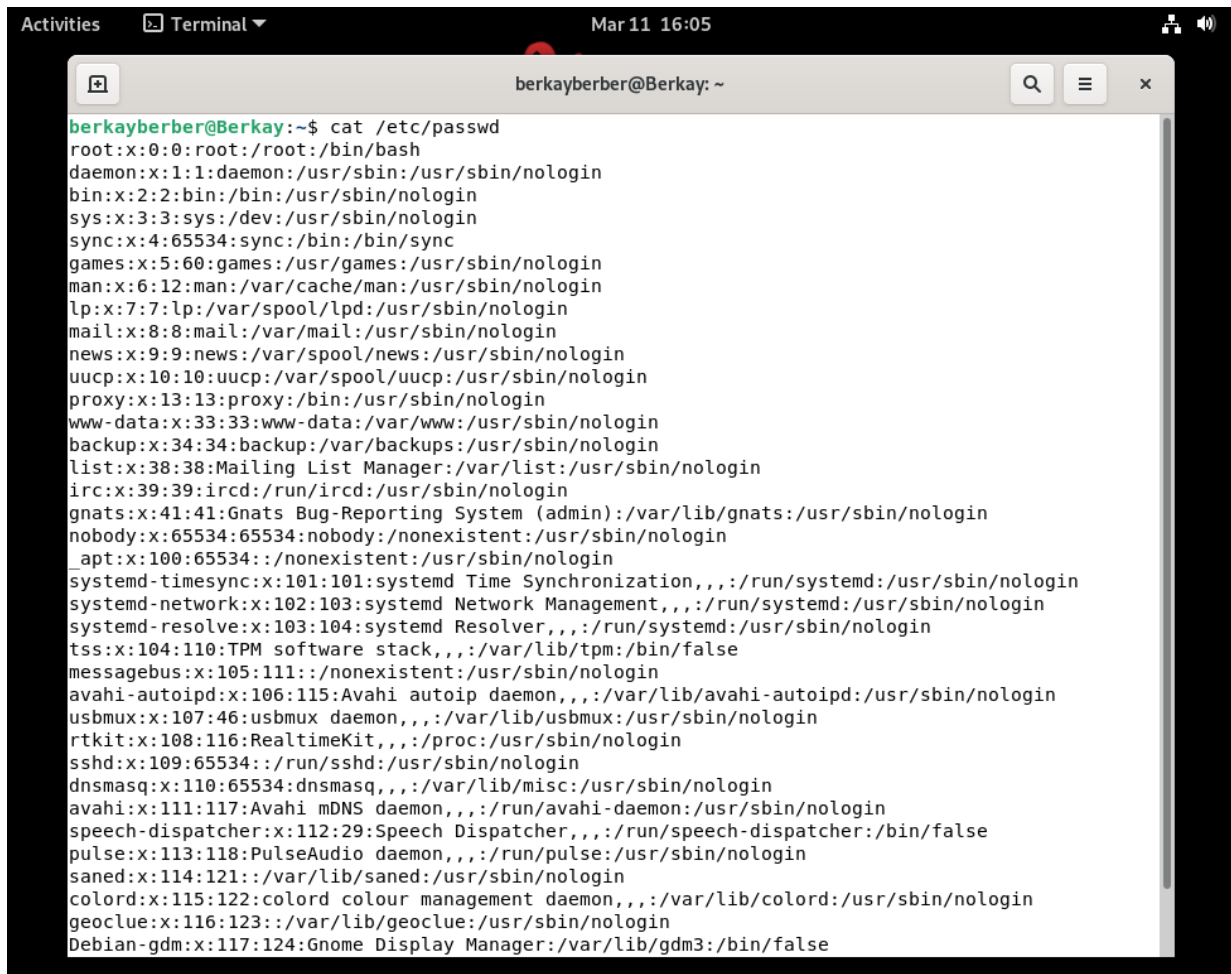


## Task 2.3) -> To see the mount command location, I used which mount.





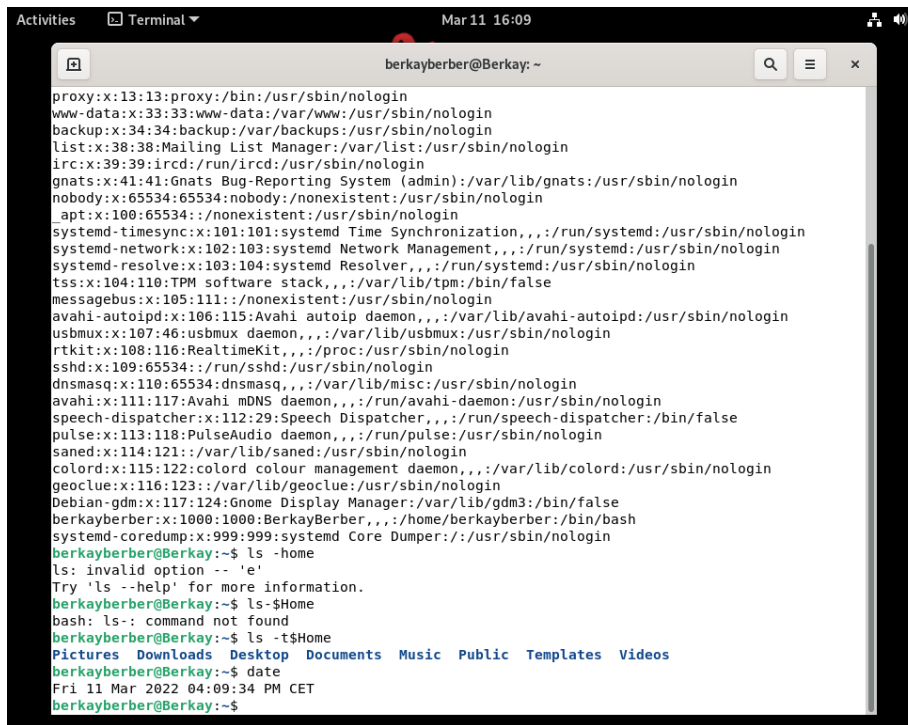
## Task 2.4) -> Running cat /etc/passwd command:

A terminal window titled 'berkayberber@Berkay: ~' is shown. The terminal displays the output of the command 'cat /etc/passwd'. The output lists system and regular users in a colon-separated format: username:x:uid:gid:gecos:home:shell. The users listed include root, daemon, bin, sys, sync, games, man, lp, mail, news, uucp, proxy, www-data, backup, list, irc, gnats, nobody, \_apt, systemd-timesync, systemd-network, systemd-resolve, tss, messagebus, avahi-autoipd, usbmux, rtkit, sshd, dnsmasq, avahi, speech-dispatcher, pulse, saned, colord, geoclue, and Debian-gdm.

```
berkayberber@Berkay:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailng List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534:./nonexistent:/usr/sbin/nologin
systemd-timesync:x:101:101:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:104:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
tss:x:104:110:TPM software stack,,,:/var/lib/tpm:/bin/false
messagebus:x:105:111:./nonexistent:/usr/sbin/nologin
avahi-autoipd:x:106:115:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:107:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:108:116:RealtimeKit,,,:/proc:/usr/sbin/nologin
sshd:x:109:65534:./run/sshd:/usr/sbin/nologin
dnsmasq:x:110:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
avahi:x:111:117:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:112:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
pulse:x:113:118:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
saned:x:114:121:./var/lib/saned:/usr/sbin/nologin
colord:x:115:122:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:116:123:./var/lib/geoclue:/usr/sbin/nologin
Debian-gdm:x:117:124:Gnome Display Manager:/var/lib/gdm3:/bin/false
```

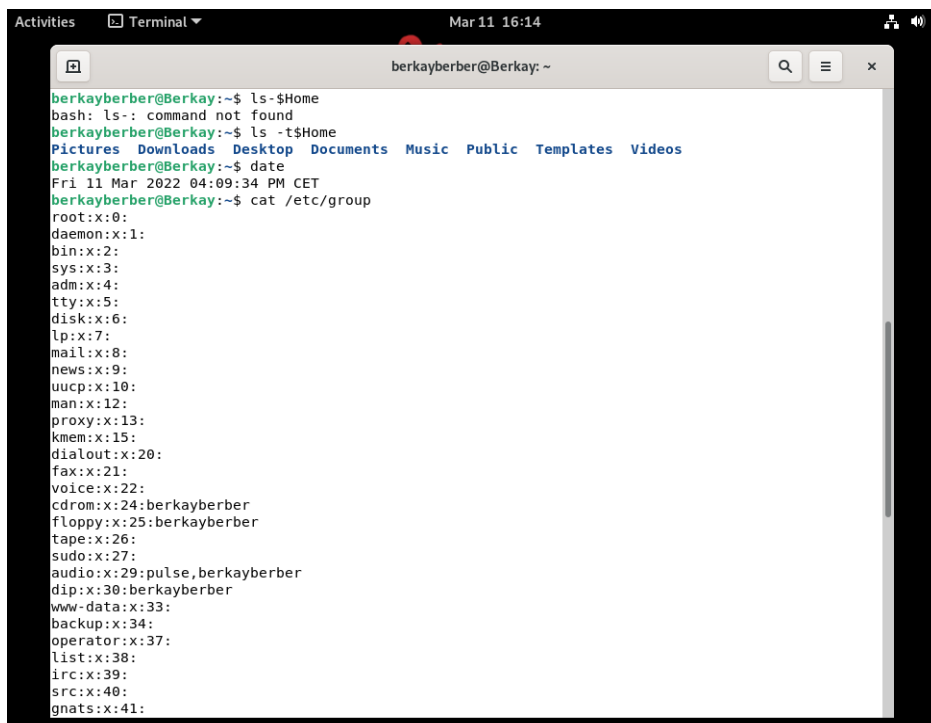
/etc/passwd file is used to keep track of every registered user that has access to a system. -text file that represent a user account

## Task 2.4) -> Running ls \$Home and date command: ls command is used to list files or directories in Linux



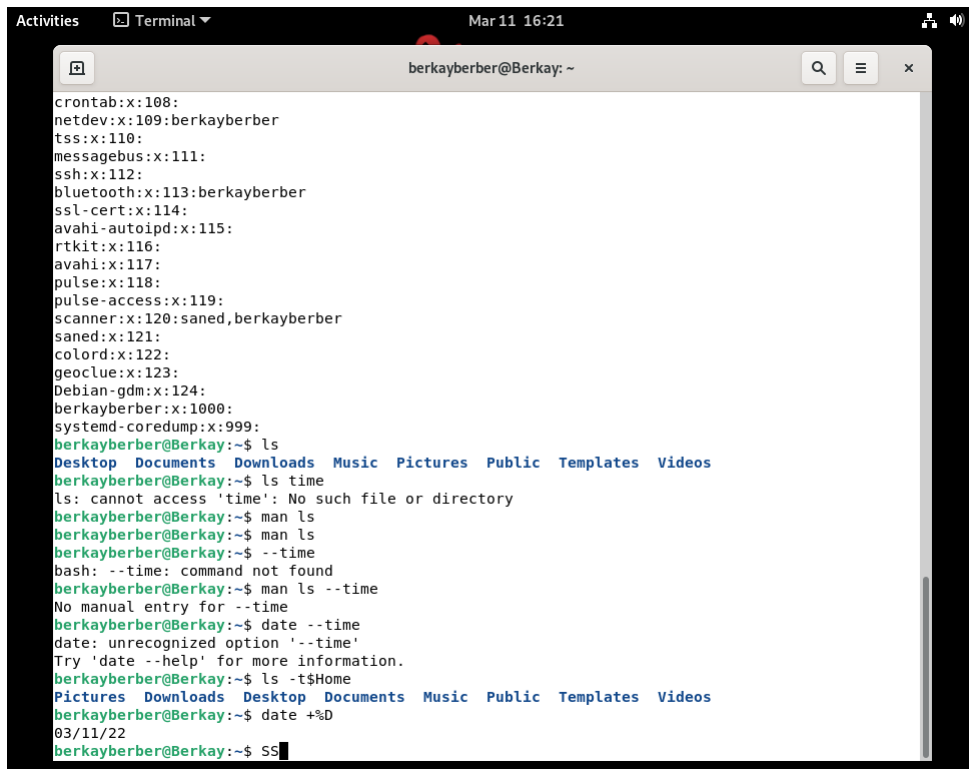
```
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mail Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:101:101:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-networkd:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:104:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
tss:x:104:110:TPM software stack,,,:/var/lib/tpm:/bin/false
messagebus:x:105:111:/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:106:115:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:107:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
rtkit:x:108:116:RealtimeKit,,,:/proc:/usr/sbin/nologin
sshd:x:109:65534:/run/ssh:/usr/sbin/nologin
dnsmasq:x:110:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
avahi:x:111:117:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
speech-dispatcher:x:112:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
pulse:x:113:118:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin
saned:x:114:121:/var/lib/saned:/usr/sbin/nologin
colord:x:115:122:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:116:123:/var/lib/geoclue:/usr/sbin/nologin
Debian-gdm:x:117:124:Gnome Display Manager:/var/lib/gdm3:/bin/false
berkayberber:x:1000:1000:berkayberber,,,:/home/berkayberber:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/usr/sbin/nologin
berkayberber@Berkay:~$ ls -home
ls: invalid option -- 'e'
Try 'ls --help' for more information.
berkayberber@Berkay:~$ ls -l$Home
bash: ls-: command not found
berkayberber@Berkay:~$ ls -t$Home
Pictures Downloads Desktop Documents Music Public Templates Videos
berkayberber@Berkay:~$ date
Fri 11 Mar 2022 04:09:34 PM CET
berkayberber@Berkay:~$
```

## Task 2.4.a)



```
berkayberber@Berkay:~$ ls -l$Home
bash: ls-: command not found
berkayberber@Berkay:~$ ls -t$Home
Pictures Downloads Desktop Documents Music Public Templates Videos
berkayberber@Berkay:~$ date
Fri 11 Mar 2022 04:09:34 PM CET
berkayberber@Berkay:~$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:berkayberber
floppy:x:25:berkayberber
tape:x:26:
sudo:x:27:
audio:x:29:pulse,berkayberber
dip:x:30:berkayberber
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
```

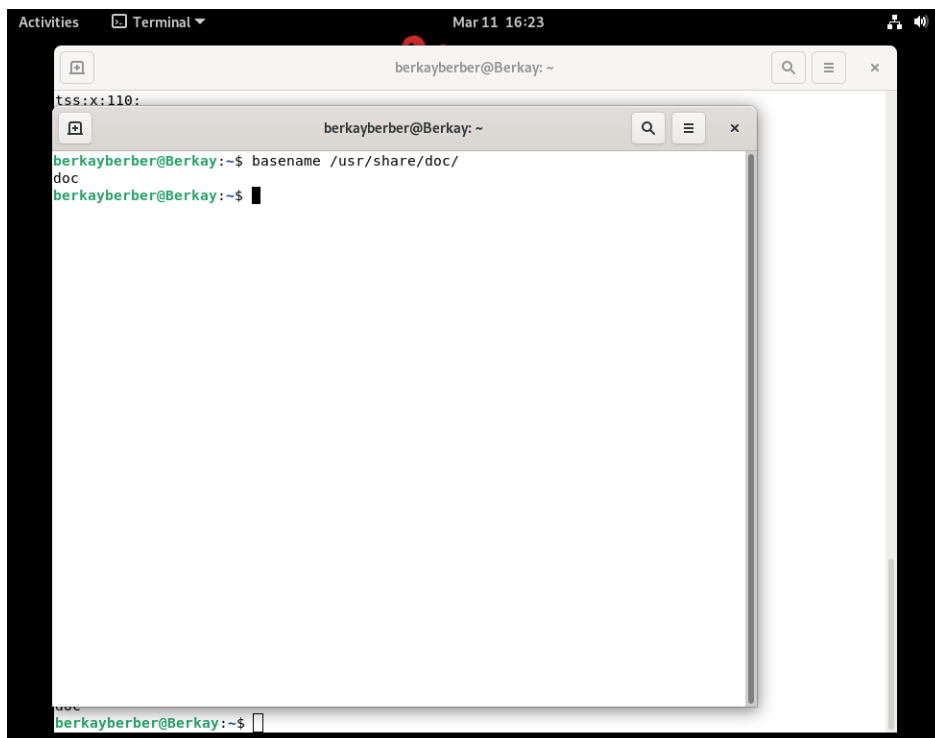
## Task 2.4.(b,c))



A terminal window titled 'berkayberber@Berkay: ~' showing the output of the 'cat /etc/passwd' command, listing system users and regular users. It then shows the execution of 'ls', 'man ls', and 'date' commands with various flags.

```
crontab:x:108:
netdev:x:109:berkayberber
tss:x:110:
messagebus:x:111:
ssh:x:112:
bluetooth:x:113:berkayberber
ssl-cert:x:114:
avahi-autoipd:x:115:
rtkit:x:116:
avahi:x:117:
pulse:x:118:
pulse-access:x:119:
scanner:x:120:saned,berkayberber
saned:x:121:
colord:x:122:
geoclue:x:123:
Debian-gdm:x:124:
berkayberber:x:1000:
systemd-coredump:x:999:
berkayberber@Berkay:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
berkayberber@Berkay:~$ ls time
ls: cannot access 'time': No such file or directory
berkayberber@Berkay:~$ man ls
berkayberber@Berkay:~$ man ls
berkayberber@Berkay:~$ --time
bash: --time: command not found
berkayberber@Berkay:~$ man ls --time
No manual entry for --time
berkayberber@Berkay:~$ date --time
date: unrecognized option '--time'
Try 'date --help' for more information.
berkayberber@Berkay:~$ ls -t$Home
Pictures Downloads Desktop Documents Music Public Templates Videos
berkayberber@Berkay:~$ date +%D
03/11/22
berkayberber@Berkay:~$ SS
```

## Task 2.5) -> running basename /usr/share/doc/ command:



A terminal window titled 'berkayberber@Berkay: ~' showing the execution of the 'basename' command with the argument '/usr/share/doc/'. The output is 'doc'.

```
tss:x:110:
berkayberber@Berkay:~$ basename /usr/share/doc/
doc
berkayberber@Berkay:~$
```

## Task 2.6) -> Running cat/etc/services | less (less command)

```
Activities Terminal Mar 11 16:38
berkayberber@Berkay: ~
# Network services, Internet style
#
# Updated from https://www.iana.org/assignments/service-names-port-numbers/service-names-port-
# numbers.xhtml .
#
# New ports will be added on request if they have been officially assigned
# by IANA and used in the real-world or are needed by a debian package.
# If you need a huge list of used numbers please install the nmap package.

tcpmux      1/tcp                # TCP port service multiplexer
echo        7/tcp
echo        7/udp
discard     9/tcp                sink null
discard     9/udp                sink null
sysstat     11/tcp               users
daytime     13/tcp
daytime     13/udp
netstat     15/tcp
qotd        17/tcp                quote
chargen     19/tcp                ttytst source
chargen     19/udp                ttytst source
ftp-data    20/tcp
ftp         21/tcp
fsp         21/udp                fspd
ssh         22/tcp                # SSH Remote Login Protocol
telnet      23/tcp
smtp        25/tcp                mail
time        37/tcp                timserver
time        37/udp                timserver
whois       43/tcp                nicname
tacacs      49/tcp                # Login Host Protocol (TACACS)
tacacs      49/udp
domain      53/tcp                # Domain Name Server
domain      53/udp
bootps      67/udp
bootpc      68/udp

sh
```

```
Activities Terminal Mar 11 16:38
berkayberber@Berkay: ~
ospfapi     2607/tcp                # OSPF-API
isisd       2608/tcp                # ISISd vty (zebra)
fax         4557/tcp                # FAX transmission service (old)
hylafax     4559/tcp                # HylaFAX client-server protocol (new)
munin       4949/tcp                # Munin
rplay       5555/udp                # RPlay audio service
nrpe        5666/tcp                # Nagios Remote Plugin Executor
nsca        5667/tcp                # Nagios Agent - NSCA
canna       5680/tcp                # cannaserver
syslog-tls  6514/tcp                # Syslog over TLS [RFC5425]
sane-port   6566/tcp                # SANE network scanner daemon
ircd        6667/tcp                # Internet Relay Chat
zope-ftp    8021/tcp                # zope management by ftp
tproxy      8081/tcp                # Transparent Proxy
omniorb     8088/tcp                # OmniORB
clc-build-daemon 8990/tcp            # Common lisp build daemon
xinetd      9098/tcp
git         9418/tcp                # Git Version Control System
zope        9673/tcp                # zope server
webmin      10000/tcp
kamanda     10081/tcp                # amanda backup services (Kerberos)
amandaidx   10082/tcp                # amanda backup services
amidxtape   10083/tcp                # amanda backup services
sgi-cmsd    17001/udp                # Cluster membership services daemon
sgi-crsd    17002/udp
sgi-gcd     17003/udp                # SGI Group membership daemon
sgi-cad     17004/tcp                # Cluster Admin daemon
binkp       24554/tcp               # binkp fidonet protocol
asp         27374/tcp                # Address Search Protocol
asp         27374/udp
csync2      30865/tcp                # cluster synchronization tool
dirproxy    57000/tcp                # Detachable IRC Proxy
tfido       60177/tcp                # fidonet EMSI over telnet
fido        60179/tcp                # fidonet EMSI over TCP

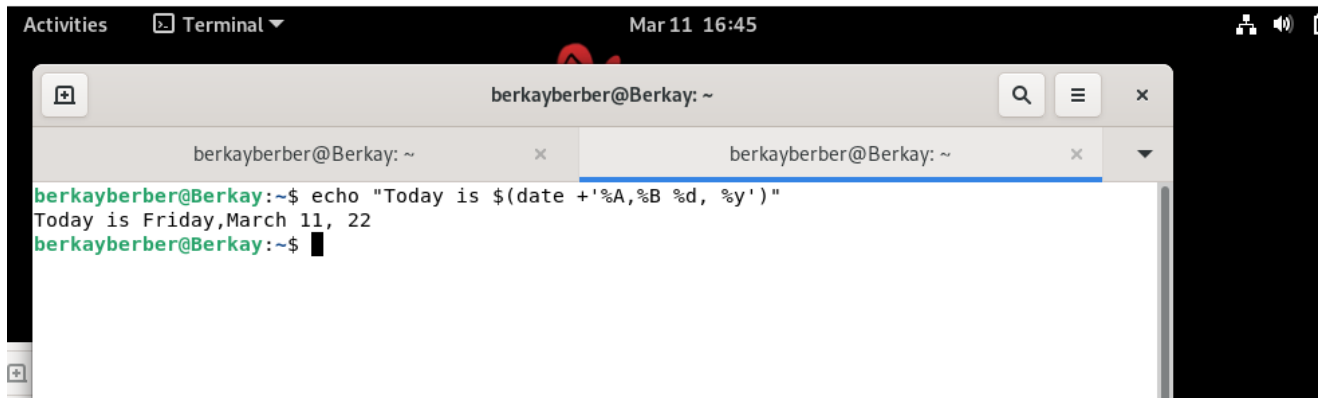
# Local services
sh
```

```
berkayberber@Berkay:~$ cat /etc/services | less
```

```
[1]+  Stopped                  cat /etc/services | less
```

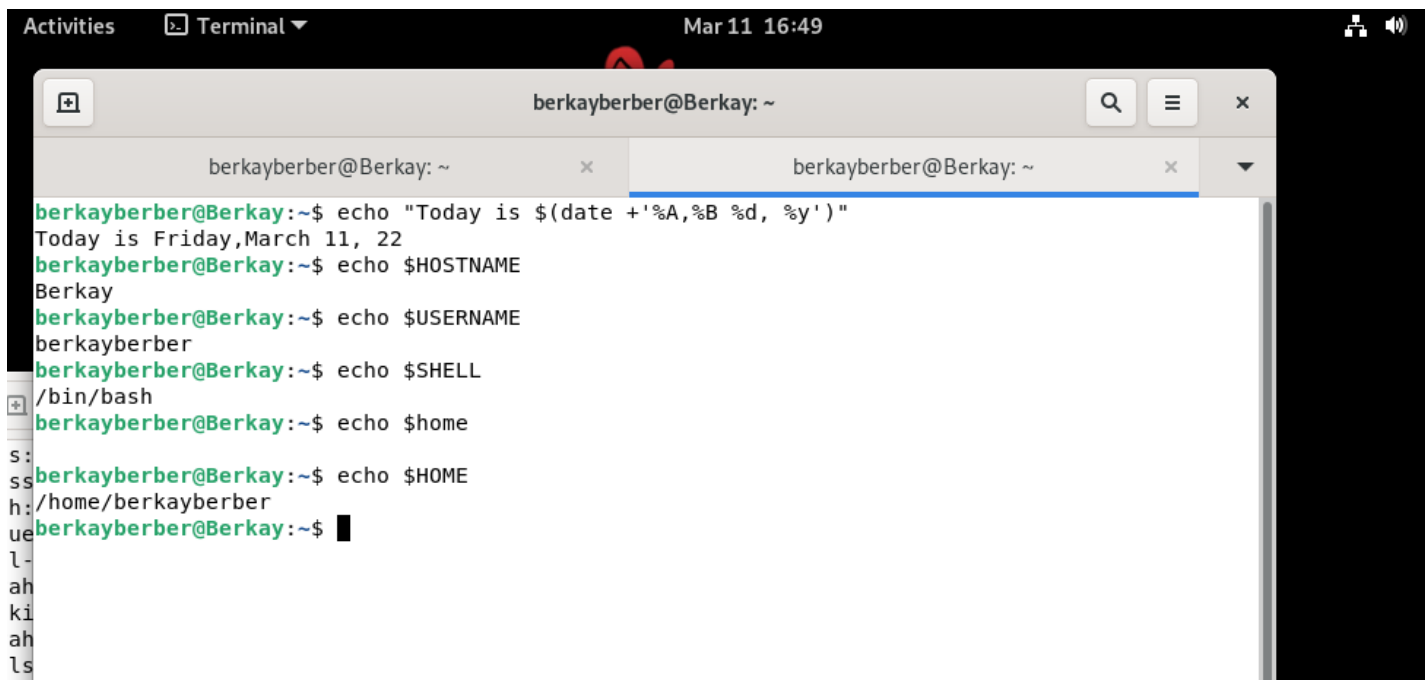
```
berkayberber@Berkay:~$ █
```

Task 2.7) -> Running a command to print a date in specific manner(day, month and the day, year)

A terminal window titled 'berkayberber@Berkay: ~' with a search icon, menu icon, and close button. It shows two tabs, both labeled 'berkayberber@Berkay: ~'. The active tab contains the command `echo "Today is $(date +%A,%B %d, %y)"` and its output `Today is Friday, March 11, 22`. The prompt is `berkayberber@Berkay:~$` followed by a cursor.

```
berkayberber@Berkay:~$ echo "Today is $(date +%A,%B %d, %y)"
Today is Friday, March 11, 22
berkayberber@Berkay:~$ █
```

Task 2.8) -> hostname, username, shell, and home directories

A terminal window titled 'berkayberber@Berkay: ~' with a search icon, menu icon, and close button. It shows two tabs, both labeled 'berkayberber@Berkay: ~'. The active tab contains a series of `echo` commands and their outputs: `echo "Today is $(date +%A,%B %d, %y)"` outputs `Today is Friday, March 11, 22`; `echo $HOSTNAME` outputs `Berkay`; `echo $USERNAME` outputs `berkayberber`; `echo $SHELL` outputs `/bin/bash`; `echo $home` outputs `/home/berkayberber`; and `echo $HOME` outputs `/home/berkayberber`. The prompt is `berkayberber@Berkay:~$` followed by a cursor.

```
berkayberber@Berkay:~$ echo "Today is $(date +%A,%B %d, %y)"
Today is Friday, March 11, 22
berkayberber@Berkay:~$ echo $HOSTNAME
Berkay
berkayberber@Berkay:~$ echo $USERNAME
berkayberber
berkayberber@Berkay:~$ echo $SHELL
/bin/bash
berkayberber@Berkay:~$ echo $home
/home/berkayberber
berkayberber@Berkay:~$ echo $HOME
/home/berkayberber
berkayberber@Berkay:~$ █
```

## Task 2.9) ->

The image shows two screenshots of a terminal window. The top screenshot shows the nano text editor editing the file `/home/berkayberber/.bashrc`. The content of the file includes comments about GCC warnings, some `ls` aliases, and alias definitions. The bottom screenshot shows the terminal after exiting nano, where the user runs `alias m='cat/etc/passwd'` and then `alias m`, resulting in an error message: `bash: cat/etc/passwd: No such file or directory`.

```

GNU nano 5.4 /home/berkayberber/.bashrc *
# colored GCC warnings and errors
#export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'

# some more ls aliases
#alias ll='ls -l'
#alias la='ls -A'
#alias l='ls -CF'

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

alias m="cat/etc/passwd"

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line
sh:
berkayberber@Berkay: ~
berkayberber@Berkay:~$ nano $HOME/Bash.rc
berkayberber@Berkay:~$ nano $HOME/.bash.rc
berkayberber@Berkay:~$ nano $HOME/.bashrc
berkayberber@Berkay:~$ nano $HOME/.bashrc
berkayberber@Berkay:~$ alias
alias ls='ls --color=auto'
alias m='cat/etc/passwd'
berkayberber@Berkay:~$ alias m
alias m='cat/etc/passwd'
berkayberber@Berkay:~$ m
bash: cat/etc/passwd: No such file or directory
berkayberber@Berkay:~$

```

## Task 2.10) -> Display the man page for the mount system call.

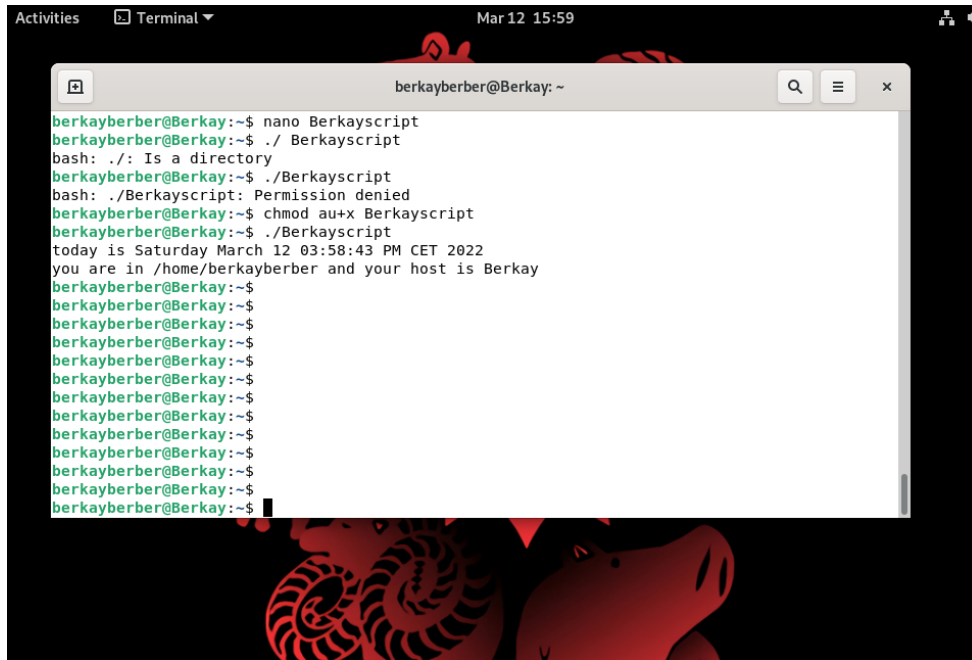
```
Activities Terminal Mar 11 17:15
berkayberber@Berkay: ~
berkayberber@Berkay: ~ x berkayberber@Berkay: ~ x berkayberber@Berkay: ~ x
mount_namespaces (7) - overview of Linux mount namespaces
mountpoint (1) - see if a directory or file is a mountpoint
berkayberber@Berkay:~$ man -k
apropos what?
berkayberber@Berkay:~$ mount
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
udev on /dev type devtmpfs (rw,nosuid,relatime,size=1242380k,nr_inodes=310595,mode=755)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000)
tmpfs on /run type tmpfs (rw,nosuid,nodev,noexec,relatime,size=253072k,mode=755)
/dev/sda4 on / type ext4 (rw,relatime,errors=remount-ro)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev)
tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k)
cgroup2 on /sys/fs/cgroup type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate,memory_rec
ursiveprot)
pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime)
efivarfs on /sys/firmware/efi/efivars type efivarfs (rw,nosuid,nodev,noexec,relatime)
none on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)
systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=29,pgrp=1,timeout=0,minprot
o=5,maxproto=5,direct,pipe_ino=11006)
mqueue on /dev/mqueue type mqueue (rw,nosuid,nodev,noexec,relatime)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime)
tracefs on /sys/kernel/tracing type tracefs (rw,nosuid,nodev,noexec,relatime)
configfs on /sys/kernel/config type configfs (rw,nosuid,nodev,noexec,relatime)
fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)
/dev/sda1 on /boot/efi type vfat (rw,relatime,fmask=0077,dmask=0077,codepage=437,ioccharset=as
cii,shortname=mixed,utf8,errors=remount-ro)
tmpfs on /run/user/1000 type tmpfs (rw,nosuid,nodev,relatime,size=253068k,nr_inodes=63267,mod
e=700,uid=1000,gid=1000)
gvfsd-fuse on /run/user/1000/gvfs type fuse.gvfsd-fuse (rw,nosuid,nodev,relatime,user_id=1000
,group_id=1000)
berkayberber@Berkay:~$
rkayberber@Berkay:~$ man ls --time
```

```
Activities Terminal Mar 11 17:16
berkayberber@Berkay: ~
berkayberber@Berkay: ~ x berkayberber@Berkay: ~ x berkayberber@Berkay: ~ x
tmpfs on /run type tmpfs (rw,nosuid,nodev,noexec,relatime,size=253072k,mode=755)
/dev/sda4 on / type ext4 (rw,relatime,errors=remount-ro)
securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev)
tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k)
cgroup2 on /sys/fs/cgroup type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate,memory_rec
ursiveprot)
pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime)
efivarfs on /sys/firmware/efi/efivars type efivarfs (rw,nosuid,nodev,noexec,relatime)
none on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)
systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=29,pgrp=1,timeout=0,minprot
o=5,maxproto=5,direct,pipe_ino=11006)
mqueue on /dev/mqueue type mqueue (rw,nosuid,nodev,noexec,relatime)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime)
tracefs on /sys/kernel/tracing type tracefs (rw,nosuid,nodev,noexec,relatime)
configfs on /sys/kernel/config type configfs (rw,nosuid,nodev,noexec,relatime)
fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)
/dev/sda1 on /boot/efi type vfat (rw,relatime,fmask=0077,dmask=0077,codepage=437,ioccharset=as
cii,shortname=mixed,utf8,errors=remount-ro)
tmpfs on /run/user/1000 type tmpfs (rw,nosuid,nodev,relatime,size=253068k,nr_inodes=63267,mod
e=700,uid=1000,gid=1000)
gvfsd-fuse on /run/user/1000/gvfs type fuse.gvfsd-fuse (rw,nosuid,nodev,relatime,user_id=1000
,group_id=1000)
berkayberber@Berkay:~$ man -k mount | grep ^mount
mount (8) - mount a filesystem
mount.fuse (8) - configuration and mount options for FUSE file systems
mount.fuse3 (8) - configuration and mount options for FUSE file systems
mount.lowntfs-3g (8) - Third Generation Read/Write NTFS Driver
mount.ntfs (8) - Third Generation Read/Write NTFS Driver
mount.ntfs-3g (8) - Third Generation Read/Write NTFS Driver
mount_namespaces (7) - overview of Linux mount namespaces
mountpoint (1) - see if a directory or file is a mountpoint
berkayberber@Berkay:~$
```

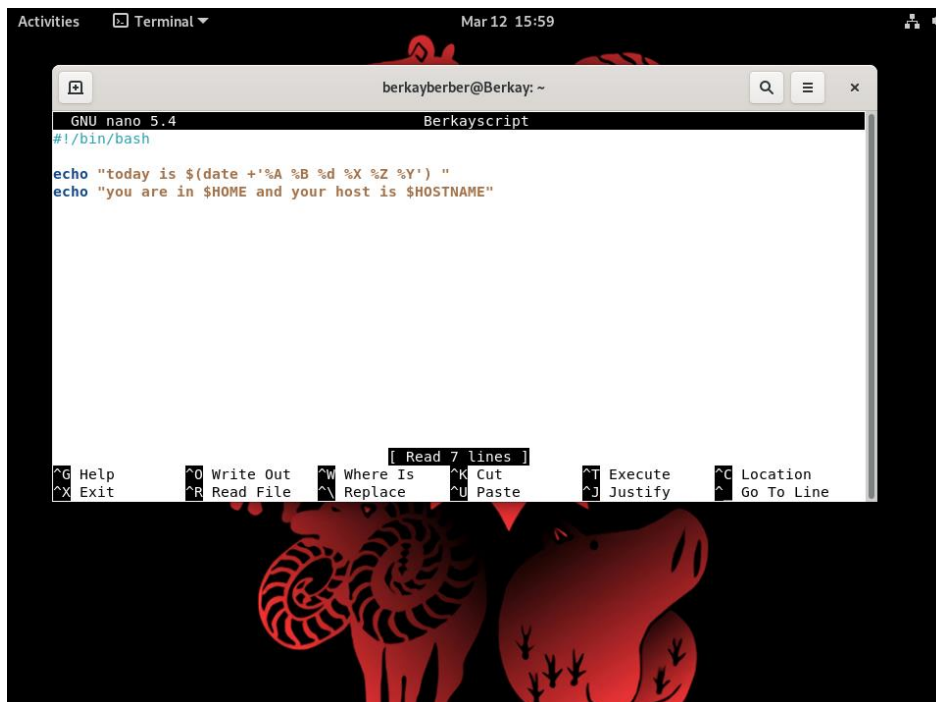
### Task 3)

Task 3.1)-> The date form as specified: (date +%A %B %d %X %Z %Y)''

+HOME command to directory, and than %HOSTNAME command to read hostname.



```
berkayberber@Berkay: ~  
berkayberber@Berkay:~$ nano Berkayscript  
berkayberber@Berkay:~$ ./ Berkayscript  
bash: ./: Is a directory  
berkayberber@Berkay:~$ ./Berkayscript  
bash: ./Berkayscript: Permission denied  
berkayberber@Berkay:~$ chmod au+x Berkayscript  
berkayberber@Berkay:~$ ./Berkayscript  
today is Saturday March 12 03:58:43 PM CET 2022  
you are in /home/berkayberber and your host is Berkay  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$
```



```
GNU nano 5.4 Berkayscript  
#!/bin/bash  
  
echo "today is $(date +%A %B %d %X %Z %Y) "  
echo "you are in $HOME and your host is $HOSTNAME"  
  
[ Read 7 lines ]  
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location  
^X Exit      ^R Read File  ^N Replace    ^U Paste       ^J Justify    ^_ Go To Line
```

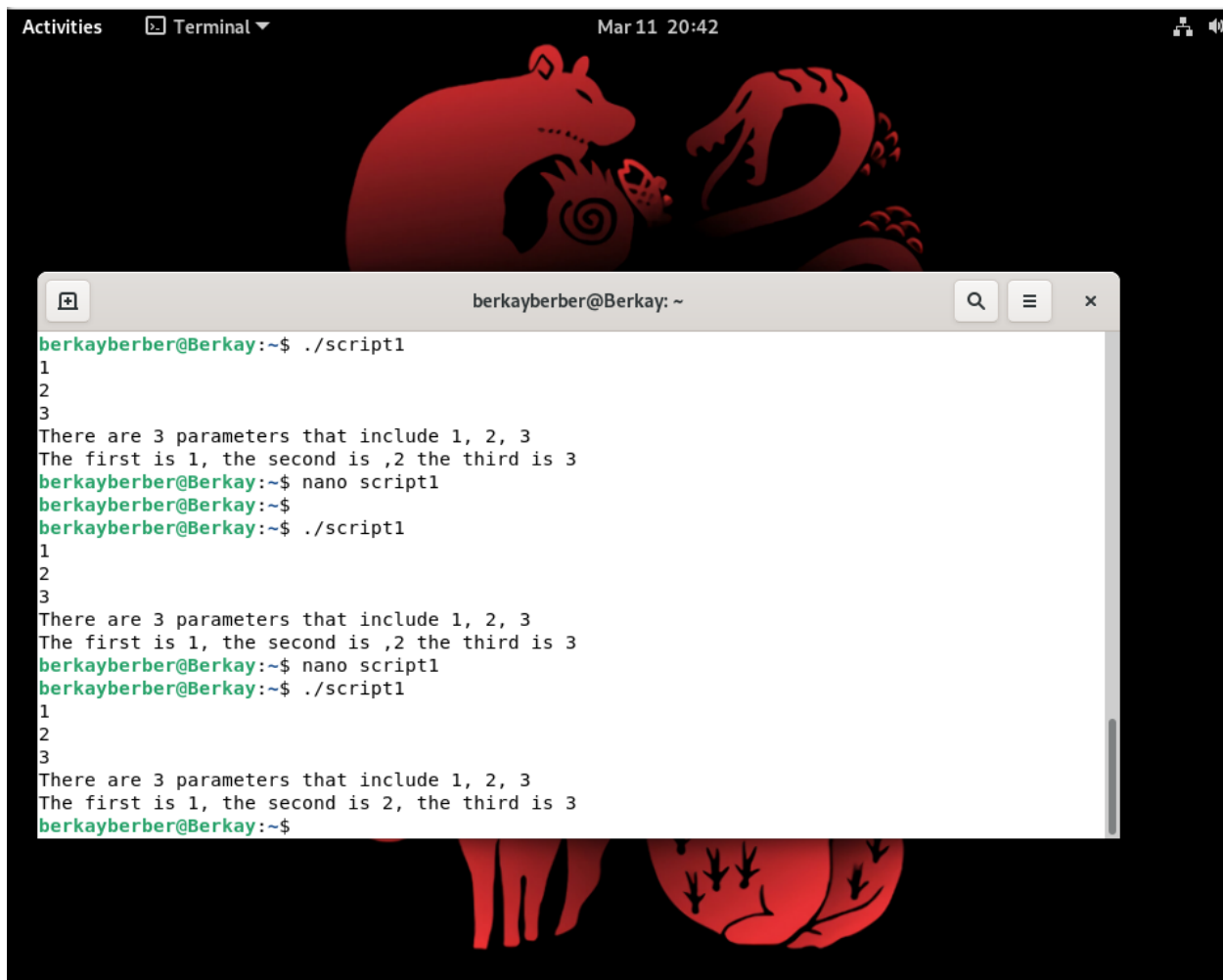


Task3.2) using “nano” command we created an script called “script1”. In order to allow script to execution privileges: used “chmod u+x script1”

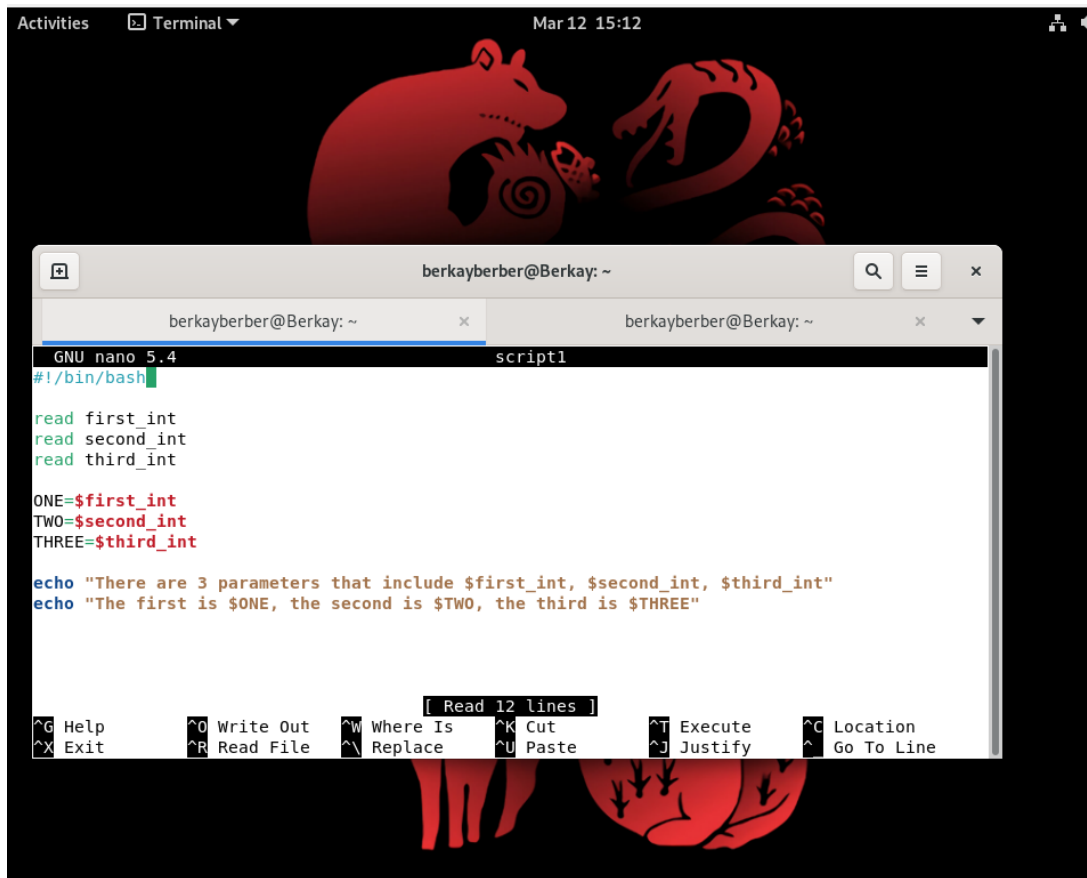
And than created three int variable using “read” command.

Defined them as ONE,TWO,THREE, than using echo command give output with pre-determined sentence and variables ve declared.

Than run with ./script1 and input three variable.

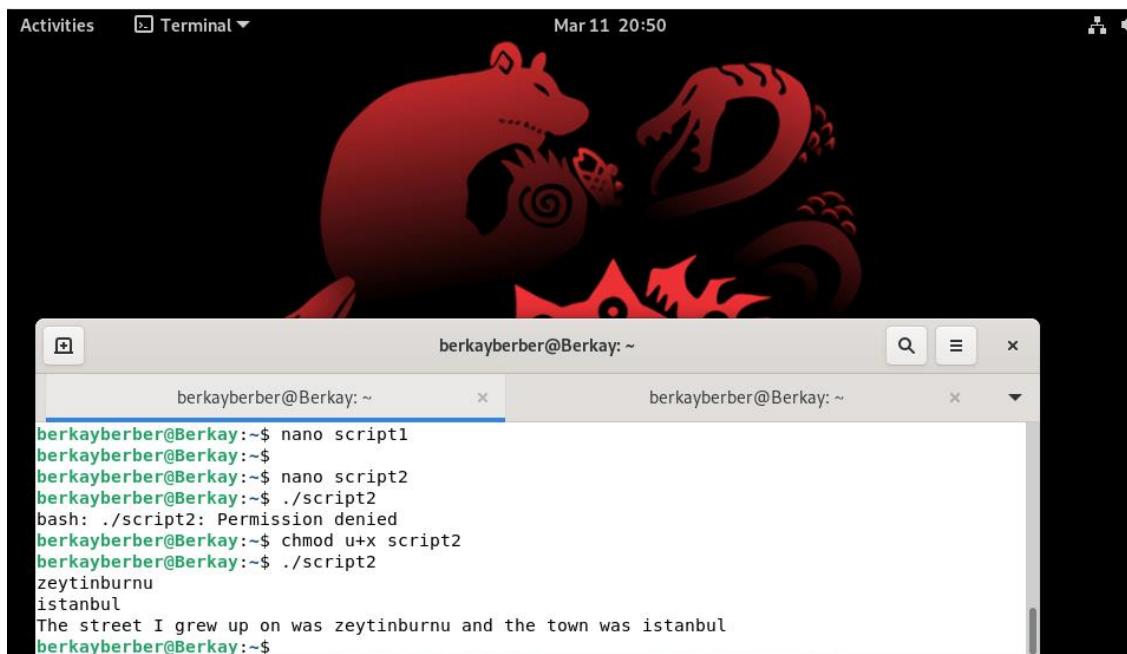


```
berkayberber@Berkay:~$ ./script1
1
2
3
There are 3 parameters that include 1, 2, 3
The first is 1, the second is ,2 the third is 3
berkayberber@Berkay:~$ nano script1
berkayberber@Berkay:~$
berkayberber@Berkay:~$ ./script1
1
2
3
There are 3 parameters that include 1, 2, 3
The first is 1, the second is ,2 the third is 3
berkayberber@Berkay:~$ nano script1
berkayberber@Berkay:~$ ./script1
1
2
3
There are 3 parameters that include 1, 2, 3
The first is 1, the second is 2, the third is 3
berkayberber@Berkay:~$
```

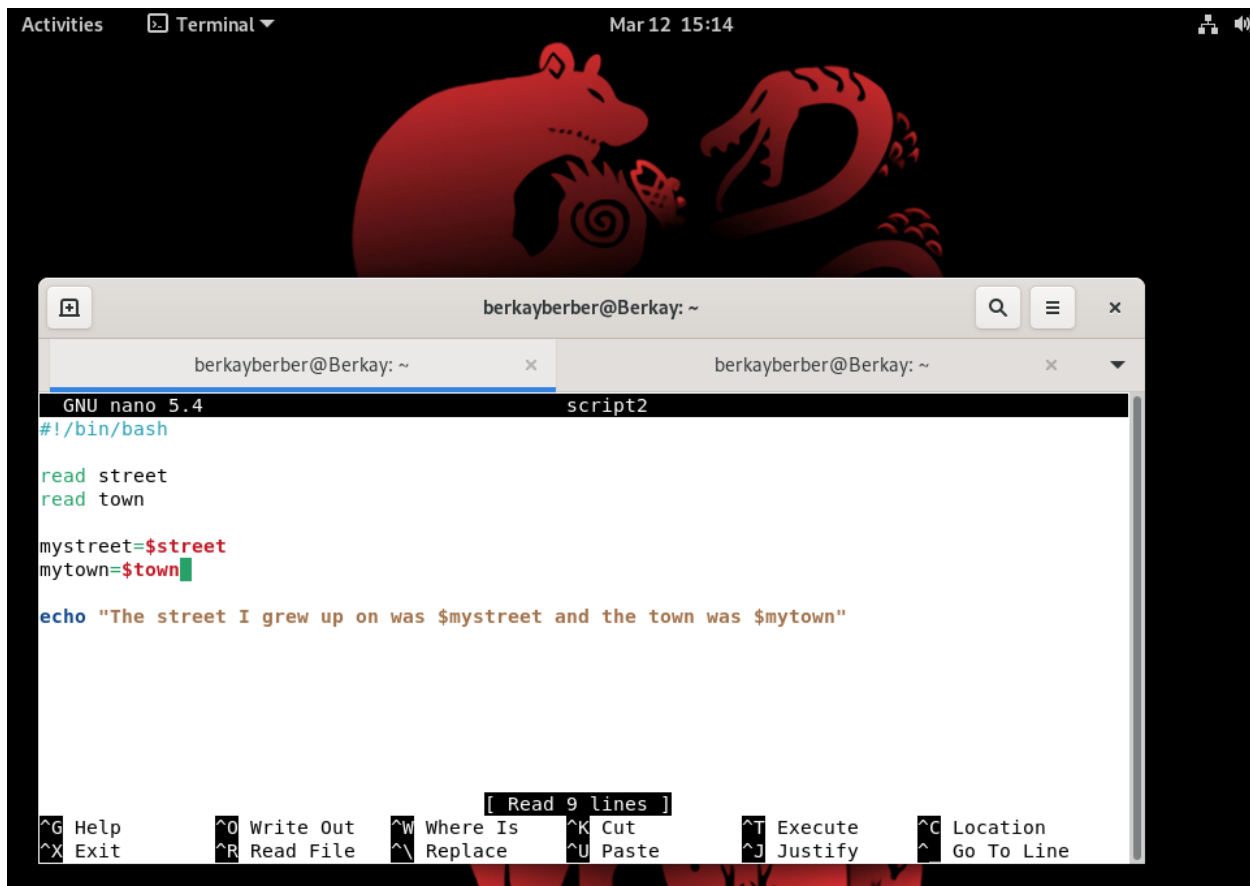


```
berkayberber@Berkay: ~  
GNU nano 5.4 script1  
#!/bin/bash  
  
read first_int  
read second_int  
read third_int  
  
ONE=$first_int  
TWO=$second_int  
THREE=$third_int  
  
echo "There are 3 parameters that include $first_int, $second_int, $third_int"  
echo "The first is $ONE, the second is $TWO, the third is $THREE"
```

Task 3.3) -> same instructions followed done in task2



```
berkayberber@Berkay: ~  
berkayberber@Berkay:~$ nano script1  
berkayberber@Berkay:~$  
berkayberber@Berkay:~$ nano script2  
berkayberber@Berkay:~$ ./script2  
bash: ./script2: Permission denied  
berkayberber@Berkay:~$ chmod u+x script2  
berkayberber@Berkay:~$ ./script2  
zeytinburnu  
istanbul  
The street I grew up on was zeytinburnu and the town was istanbul  
berkayberber@Berkay:~$
```



```
Activities  Terminal  Mar 12 15:14

berkayberber@Berkay: ~
GNU nano 5.4 script2
#!/bin/bash

read street
read town

mystreet=$street
mytown=$town

echo "The street I grew up on was $mystreet and the town was $mytown"

[ Read 9 lines ]
^G Help  ^O Write Out  ^W Where Is  ^K Cut  ^T Execute  ^C Location
^X Exit  ^R Read File  ^_ Replace  ^U Paste  ^J Justify  ^_ Go To Line
```

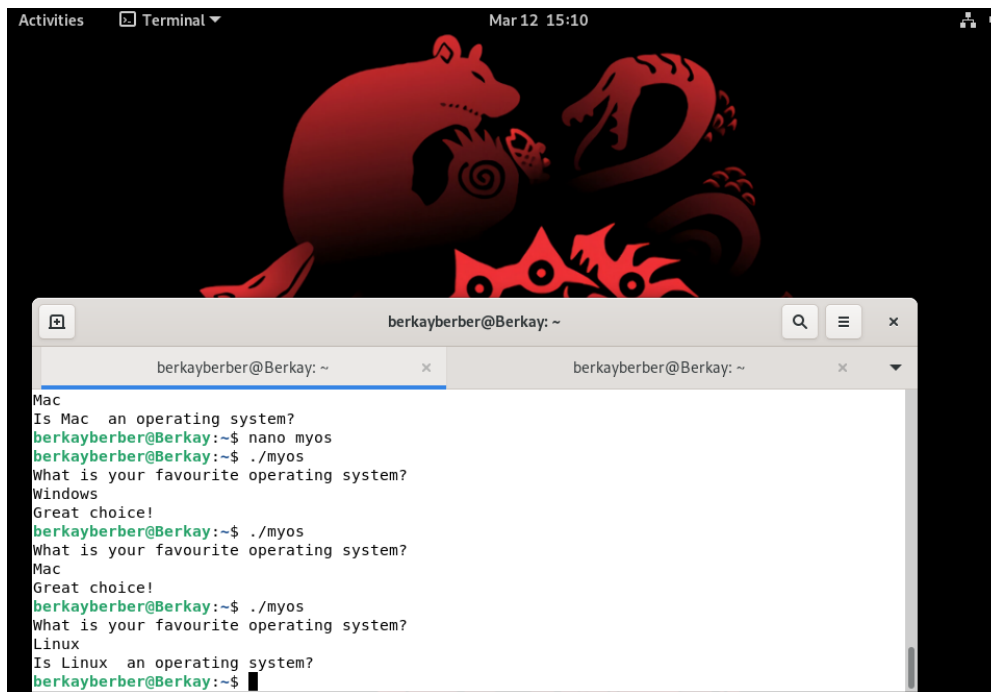
Task 3.4) -> created script called myos script with “nano myos” command.  
to allow script to execution privileges: used “chmod u+x myos”  
with if else method accomplished the given instructions: if; then else fi

```
berkayberber@Berkay:~$ nano myos
berkayberber@Berkay:~$ chmod u+x myos
```

I didn't take whole page of screenshot because there was a lot of mistake I did under these command. So I didn't mix them with this commands on the picture.

These are just a basic creating script method.

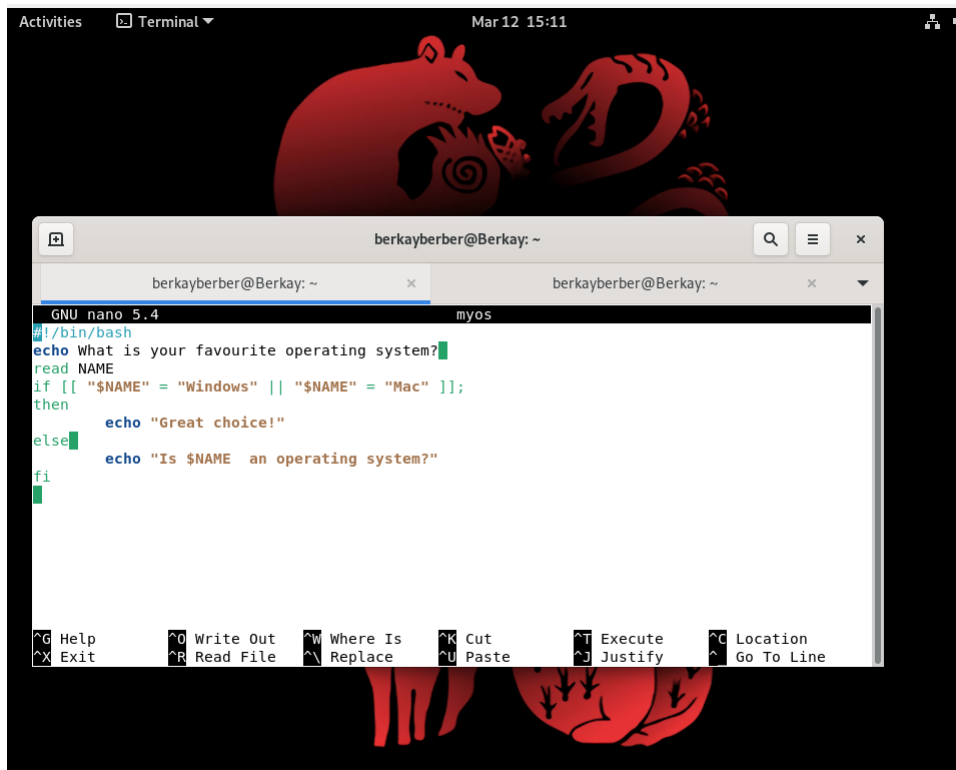
Running: rather than input of Windows or Mac, output gives an “Is \$NAME an operating system?”.



A terminal window titled 'berkayberber@Berkay: ~' with a background image of a red dragon and a red bear. The terminal shows the following commands and output:

```
berkayberber@Berkay:~$ nano myos
berkayberber@Berkay:~$ ./myos
Mac
Is Mac an operating system?
berkayberber@Berkay:~$ ./myos
What is your favourite operating system?
Windows
Great choice!
berkayberber@Berkay:~$ ./myos
What is your favourite operating system?
Mac
Great choice!
berkayberber@Berkay:~$ ./myos
What is your favourite operating system?
Linux
Is Linux an operating system?
berkayberber@Berkay:~$
```

If else method:



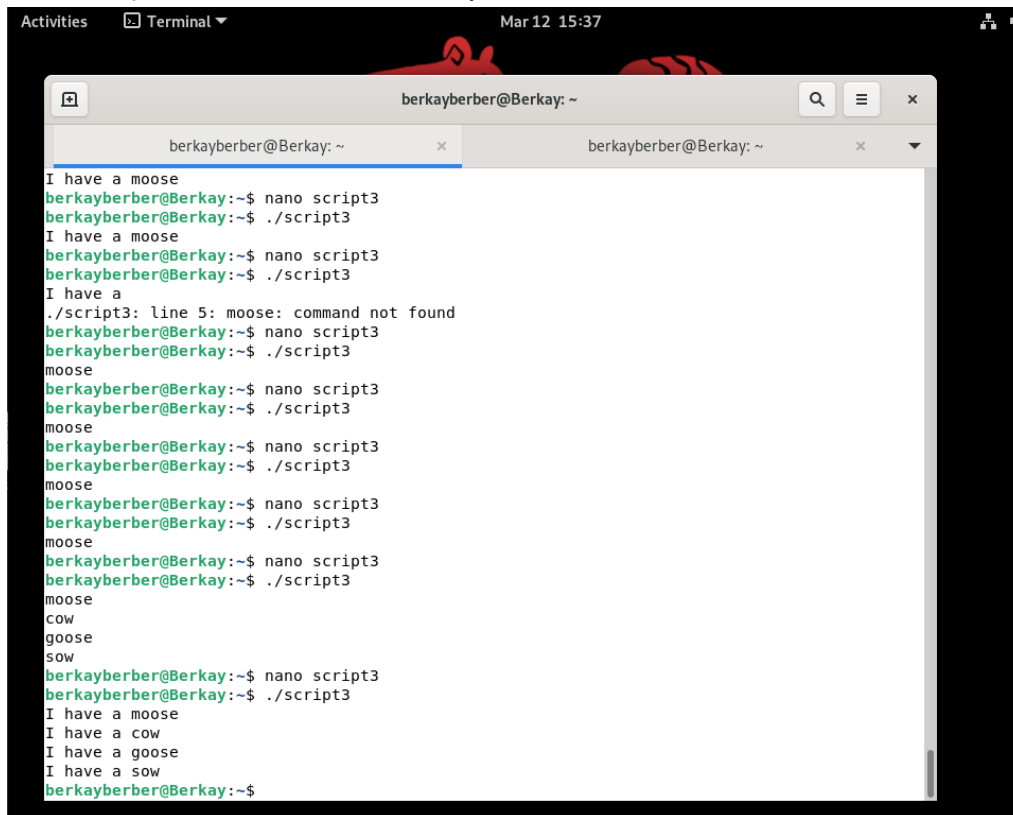
A terminal window titled 'berkayberber@Berkay: ~' with a background image of a red dragon and a red bear. The terminal shows the source code of the 'myos' script being edited in nano editor:

```
GNU nano 5.4 myos
#!/bin/bash
echo What is your favourite operating system?
read NAME
if [[ "$NAME" = "Windows" || "$NAME" = "Mac" ]];
then
    echo "Great choice!"
else
    echo "Is $NAME an operating system?"
fi
```

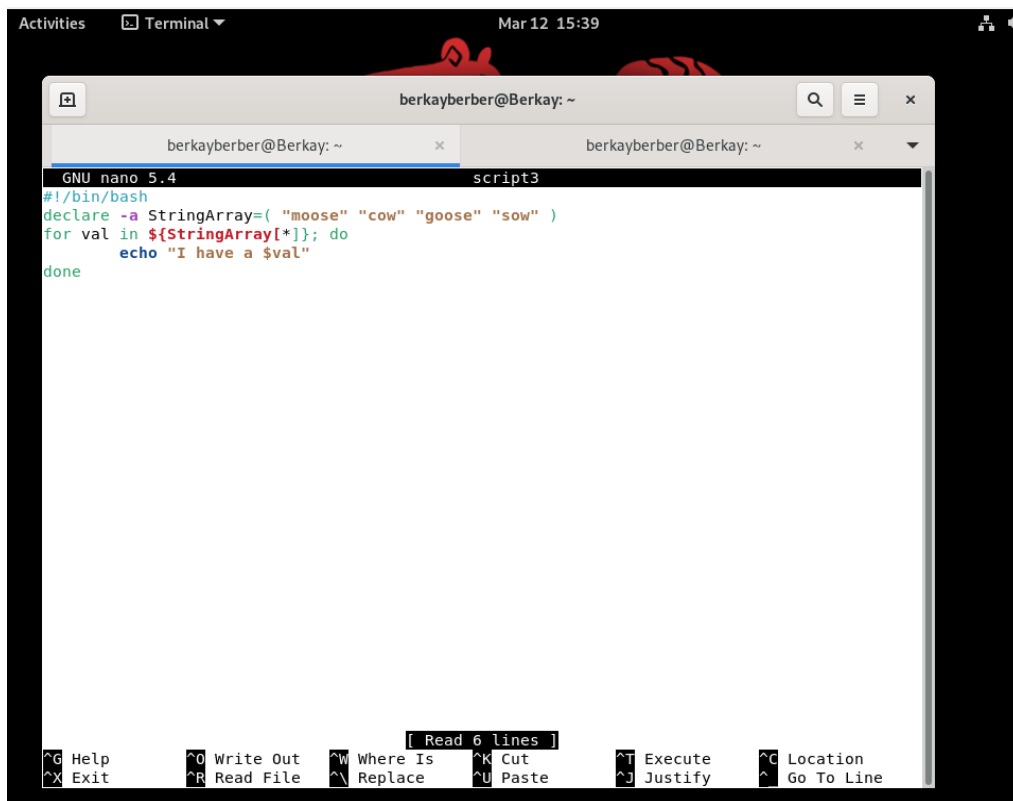
At the bottom of the terminal, there is a status bar with the following text:

```
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^N Replace ^U Paste ^J Justify ^_ Go To Line
```

Task 3.5)->The correct form is presented below of commands.Done with StringArr



```
berkayberber@Berkay: ~  
I have a moose  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
I have a moose  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
I have a  
./script3: line 5: moose: command not found  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
moose  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
moose  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
moose  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
moose  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
moose  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
moose  
cow  
goose  
sow  
berkayberber@Berkay:~$ nano script3  
berkayberber@Berkay:~$ ./script3  
I have a moose  
I have a cow  
I have a goose  
I have a sow  
berkayberber@Berkay:~$
```

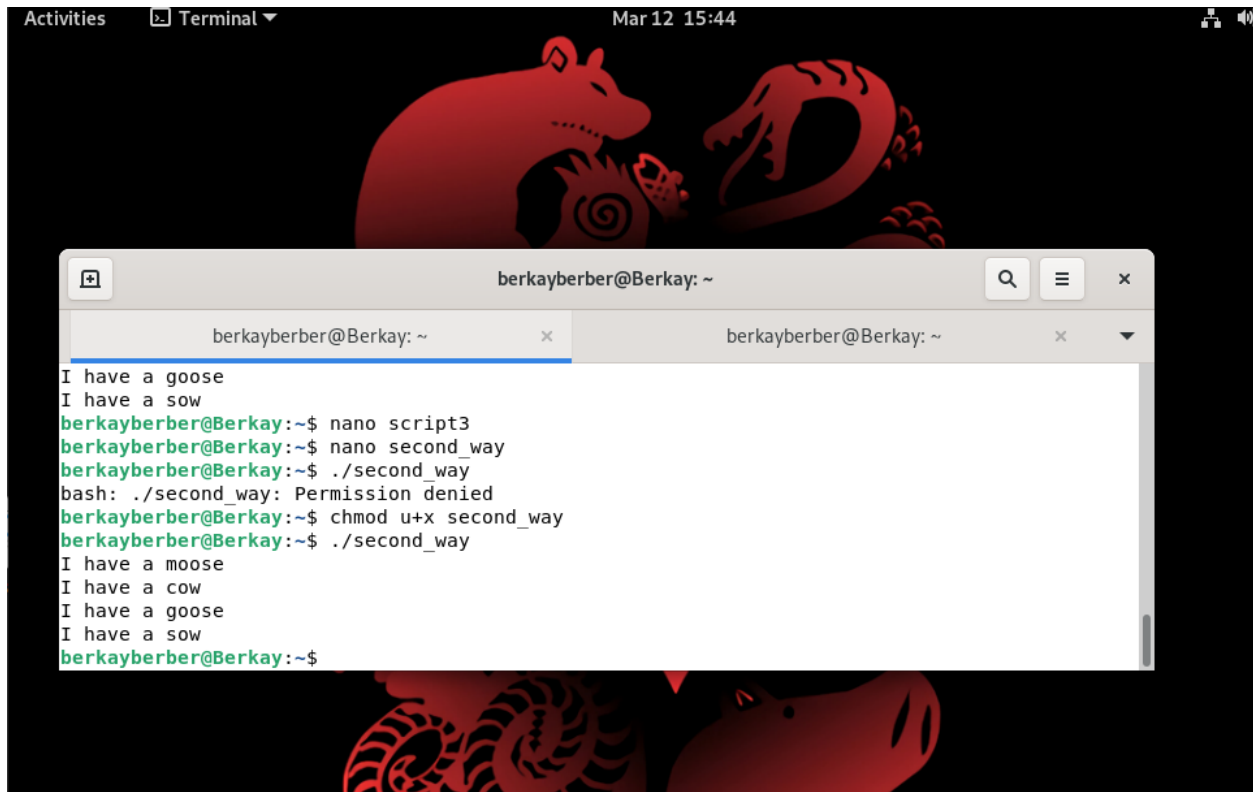


```
GNU nano 5.4 script3  
#!/bin/bash  
declare -a StringArray=( "moose" "cow" "goose" "sow" )  
for val in ${StringArray[*]}; do  
    echo "I have a $val"  
done
```

[ Read 6 lines ]

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^_ Replace	^U Paste	^J Justify	^_ Go To Line

Task 3.5) Second way: using basic for loop,    for x in ..    do    echo..    done



A terminal window titled 'berkayberber@Berkay: ~' with a timestamp of 'Mar 12 15:44'. The window contains the following text:

```
I have a goose
I have a sow
berkayberber@Berkay:~$ nano script3
berkayberber@Berkay:~$ nano second_way
berkayberber@Berkay:~$ ./second_way
bash: ./second_way: Permission denied
berkayberber@Berkay:~$ chmod u+x second_way
berkayberber@Berkay:~$ ./second_way
I have a moose
I have a cow
I have a goose
I have a sow
berkayberber@Berkay:~$
```



A terminal window titled 'berkayberber@Berkay: ~' with a timestamp of 'Mar 12 15:45'. The window shows the nano editor editing a file named 'second way'. The editor displays the following content:

```
GNU nano 5.4 second way
#!/bin/bash

for words in moose cow goose sow
do
    echo "I have a $words"
done
```

At the bottom of the editor, there is a status bar with the text '[ Read 6 lines ]' and a table of keyboard shortcuts:

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^_ Replace	^U Paste	^J Justify	^_ Go To Line