

Create a user with the username = <your_short_name>

```
[user@parrot]~$ sudo adduser aksh
Adding user `aksh' ...
Adding new group `aksh' (1001) ...
Adding new user `aksh' (1001) with group `aksh (1001)' ...
Creating home directory `/home/aksh' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for aksh
Enter the new value, or press ENTER for the default
  Full Name []: aksh
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n]
Adding new user `aksh' to supplemental / extra groups `users' ...
Adding user `aksh' to group `users' ...
[user@parrot]~$
```

2. Create Permanent Environmental Variables.
3. Only for parrot user

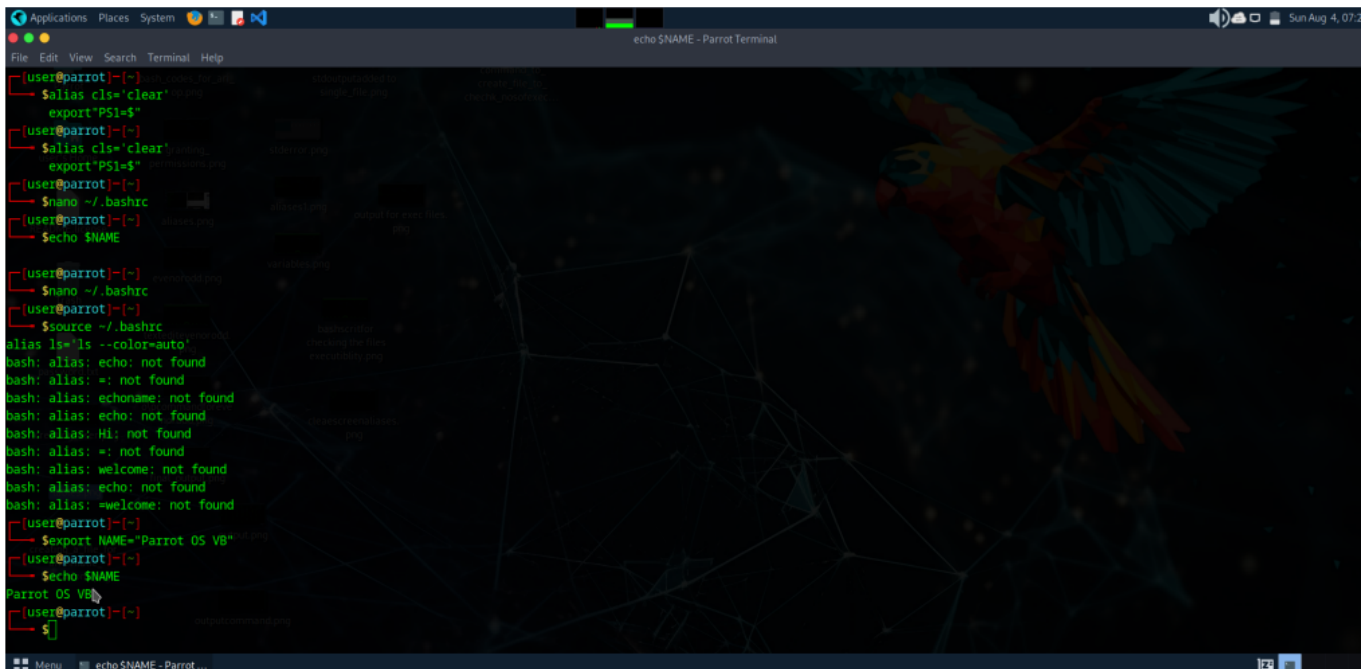
```
- NAME="Parrot OS VB"
```

2. Only for <your_short_name> user

```
- NAME=<your_full_name>
```

3. Common to Both

```
- INST="SKILL DISK"
- COURSE_FULL="Ethical Hacking & Penetration Testing"
- COURSE_SHORT="EH_PT"
```



```
[user@parrot]-[~]
$alias cls='clear'
export PS1=$"
[user@parrot]-[~]
$alias cls='clear'
export PS1=$"
[user@parrot]-[~]
$nano ~/.bashrc
[user@parrot]-[~]
$echo $NAME

[user@parrot]-[~]
$nano ~/.bashrc
[user@parrot]-[~]
$source ~/.bashrc
alias ls='ls --color=auto'
bash: alias: echo: not found
bash: alias: =: not found
bash: alias: echoname: not found
bash: alias: echo: not found
bash: alias: Hi: not found
bash: alias: =: not found
bash: alias: welcome: not found
bash: alias: echo: not found
bash: alias: =welcome: not found
[user@parrot]-[~]
$export NAME="Parrot OS VB"
[user@parrot]-[~]
$echo $NAME
Parrot OS VB
[user@parrot]-[~]
$
```



```
GNU nano 7.2 /home/user/.bashrc
export PLACE="Bengaluru"
export PLACE="South India"
export INST_EMAIL="info@skilldisk.com"
alias ls='ls -la'
alias echo $NAME = echoname
alias echo Hi $NAME = welcome
alias echo $INST = welcome
export NAME="Parrot OS VB"
```

3. Create Permanent Shell Variables.

4. Only for parrot user

- PLACE="Bengaluru"

2. Only for <your_short_name> user

- PLACE=<native_location>

3. Common to Both

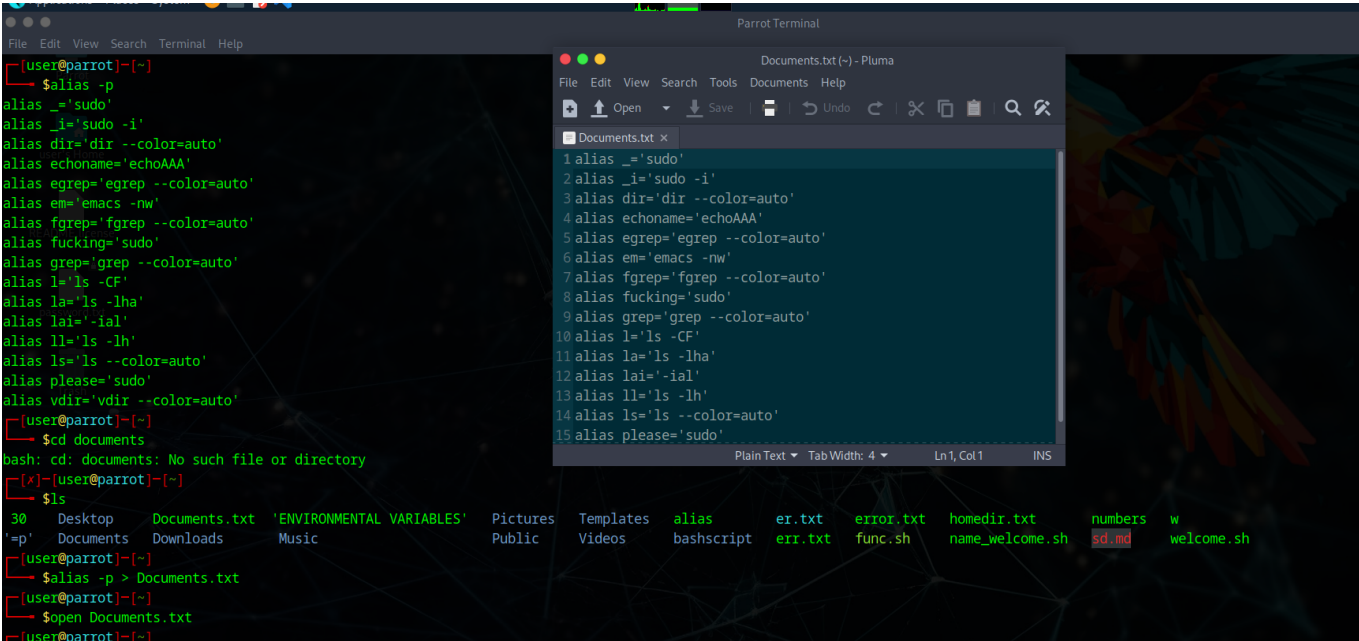
```
- INST_EMAIL="info@skilldisk.com"
```

```
[aksh@parrot]-[/home/user]
$export place=bengaluru
[aksh@parrot]-[/home/user]
$echo $place
bengaluru
[aksh@parrot]-[/home/user]
$
```

```
[user@parrot]-[~]
$su aksh
Password:
[aksh@parrot]-[/home/user]
$export place=karnataka
[aksh@parrot]-[/home/user]
$echo place
place
[aksh@parrot]-[/home/user]
$echo $ place
$ place
[aksh@parrot]-[/home/user]
$echo $place
karnataka
[aksh@parrot]-[/home/user]
$export inst_email="info@skilldisk.com"
[aksh@parrot]-[/home/user]
$echo $inst_email
info@skilldisk.com
[aksh@parrot]-[/home/user]
$
```

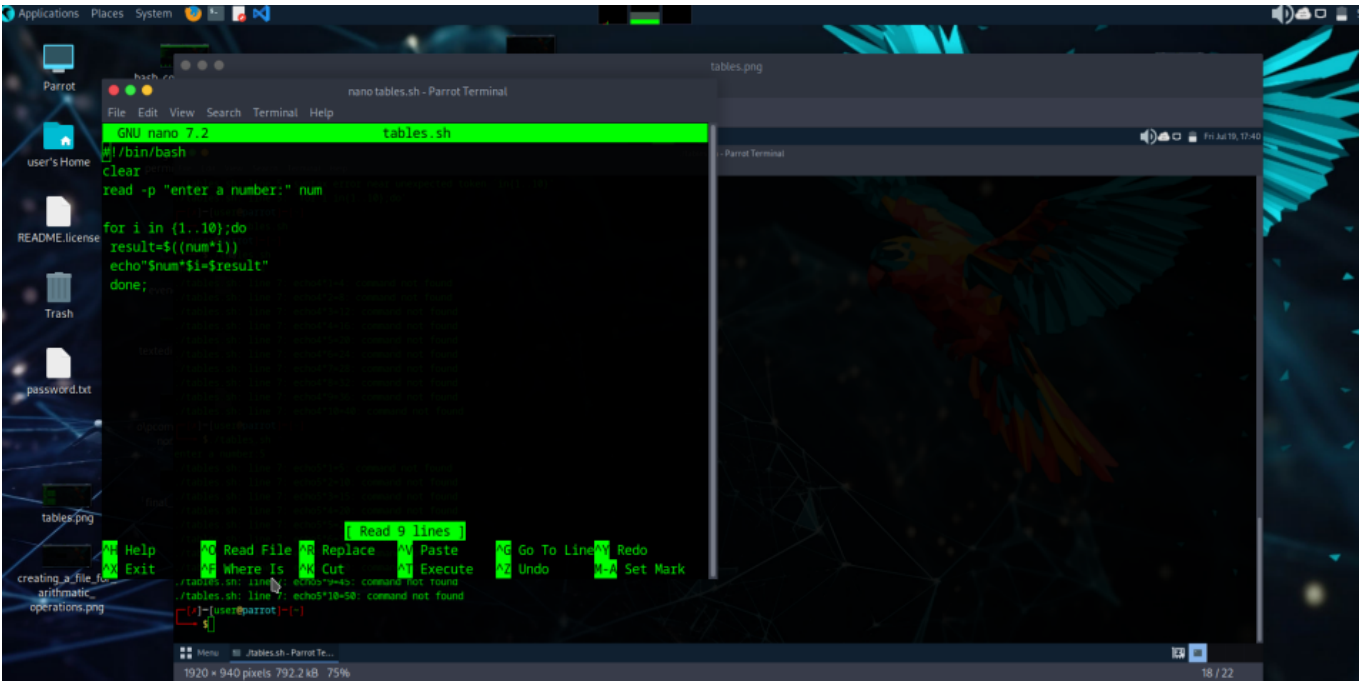
4. Create Permanent Aliase

5. lai for "ls -ial"
6. echoname for "echo \$NAME"
7. welcome for "echo 'Hi \$NAME, welcome to \$INST'



Bash Scripting solution Create the mathematical table for the user given input.

- 1 x 1 = 1
- 1 x 2 = 2
- .
- .
- .
- 1 x 10 = 10

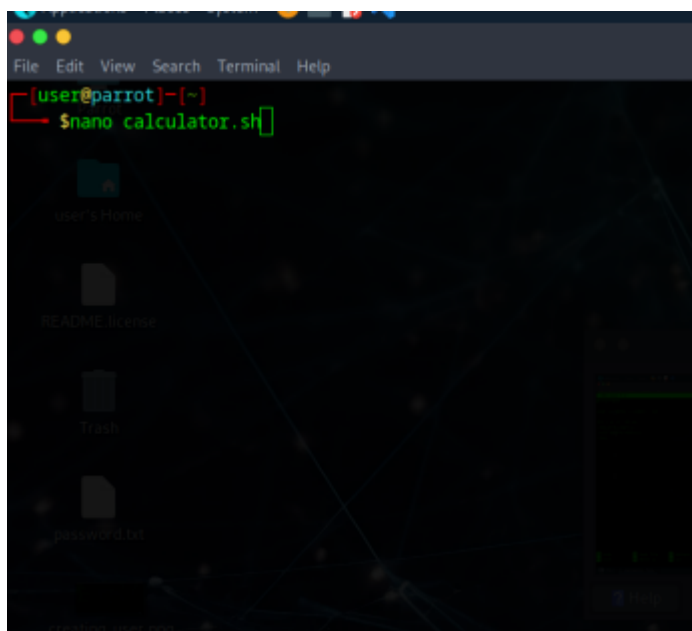


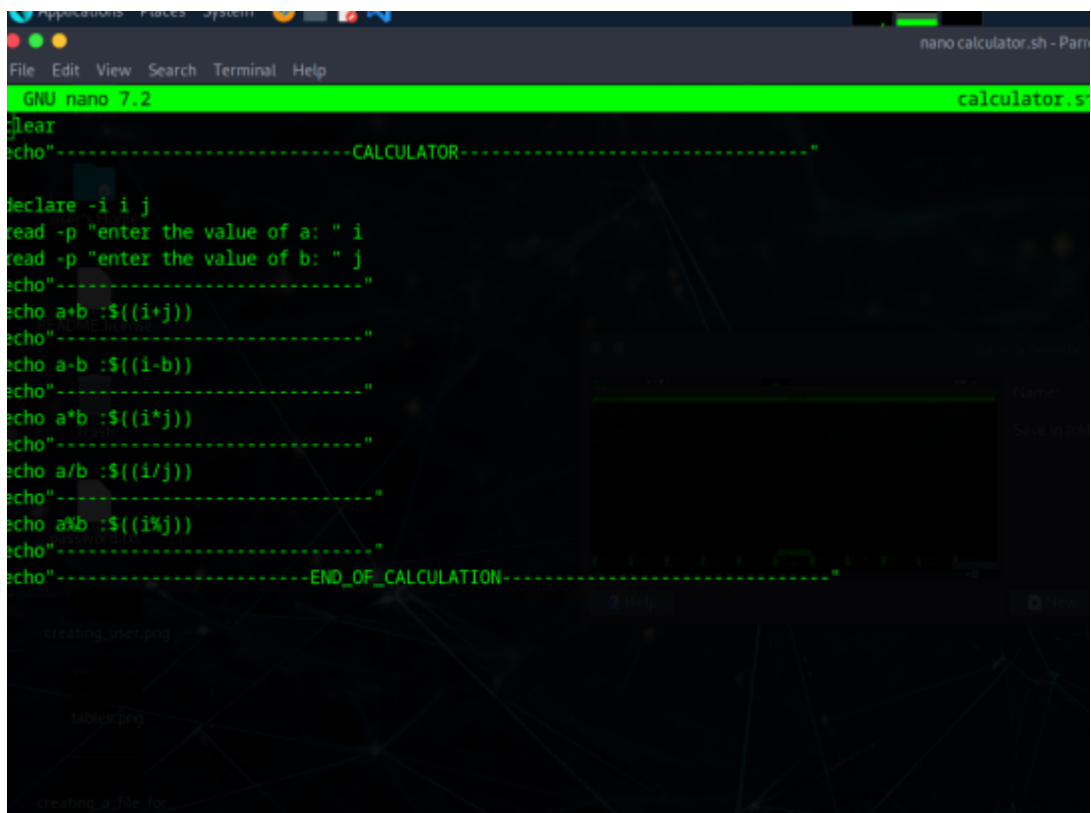
```
File Edit View Search Terminal Help
./tables.sh: line 5: syntax error near unexpected token `in{1..10}'
./tables.sh: line 5: `for i in{1..10};do'
-[x]-(user@parrot)-[~]
→ $nano tables.sh
-(user@parrot)-[~]
→ $./tables.sh
enter a number:4
./tables.sh: line 7: echo4*1=4: command not found
./tables.sh: line 7: echo4*2=8: command not found
./tables.sh: line 7: echo4*3=12: command not found
./tables.sh: line 7: echo4*4=16: command not found
./tables.sh: line 7: echo4*5=20: command not found
./tables.sh: line 7: echo4*6=24: command not found
./tables.sh: line 7: echo4*7=28: command not found
./tables.sh: line 7: echo4*8=32: command not found
./tables.sh: line 7: echo4*9=36: command not found
./tables.sh: line 7: echo4*10=40: command not found
-[x]-(user@parrot)-[~]
→ $./tables.sh
enter a number:5
./tables.sh: line 7: echo5*1=5: command not found
./tables.sh: line 7: echo5*2=10: command not found
./tables.sh: line 7: echo5*3=15: command not found
./tables.sh: line 7: echo5*4=20: command not found
./tables.sh: line 7: echo5*5=25: command not found
./tables.sh: line 7: echo5*6=30: command not found
./tables.sh: line 7: echo5*7=35: command not found
./tables.sh: line 7: echo5*8=40: command not found
./tables.sh: line 7: echo5*9=45: command not found
./tables.sh: line 7: echo5*10=50: command not found
-[x]-(user@parrot)-[~]
→ $
```

Write a script to perform arithmetic Operations addition, subtraction, multiplication, division in a single script

Note: variable type should be set to integer

```
File Edit View Search Terminal Help
-(user@parrot)-[~]
→ $nano calculator.sh
```





```
File Edit View Search Terminal Help
GNU nano 7.2 calculator.sh
clear
echo"-----CALCULATOR-----"

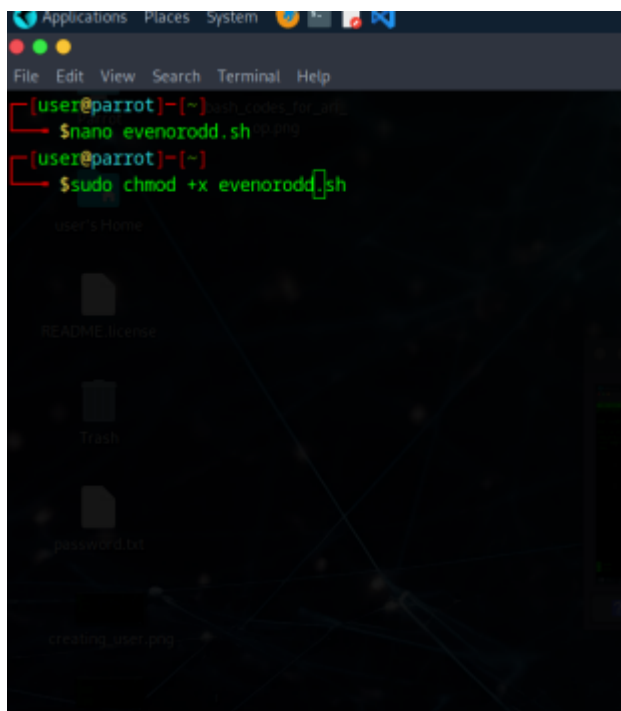
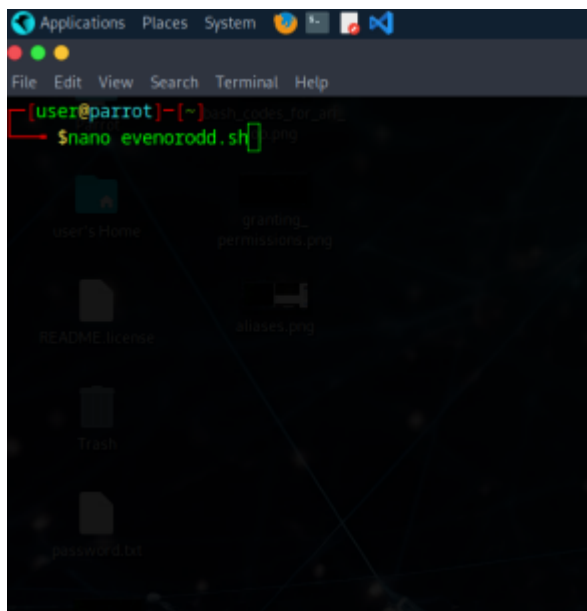
declare -i i j
read -p "enter the value of a: " i
read -p "enter the value of b: " j
echo"-----"
echo a+b :${(i+j)}
echo"-----"
echo a-b :${(i-b)}
echo"-----"
echo a*b :${(i*j)}
echo"-----"
echo a/b :${(i/j)}
echo"-----"
echo a%b :${(i%j)}
echo"-----"
echo"-----END_OF_CALCULATION-----"
```

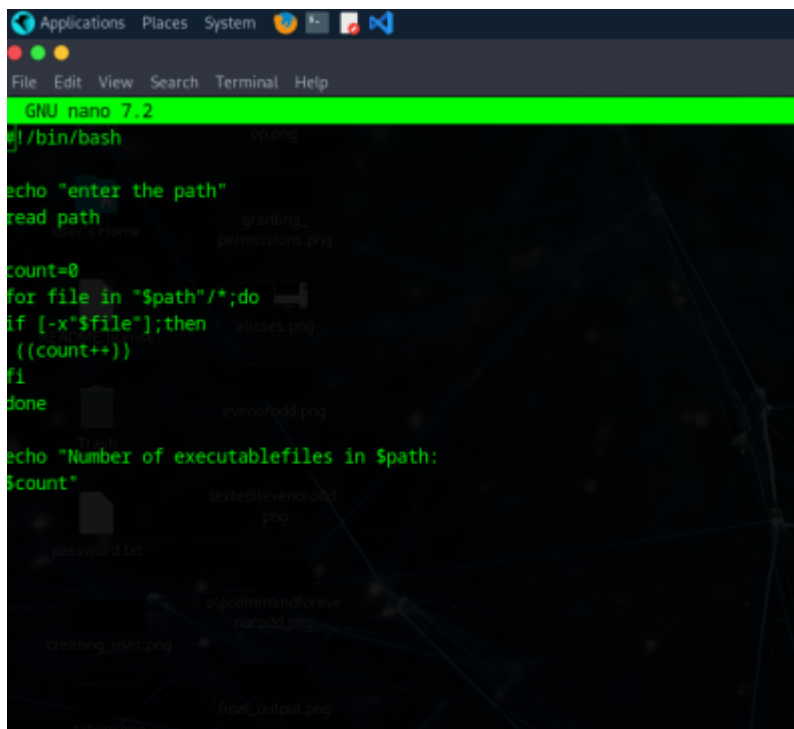


```
File Edit View Search Terminal Help
./calculator.sh - Parrot Terminal

./calculator.sh: line 2: echo"-----CALCULATOR-----": command not found
enter the value of a: 123
enter the value of b: 345
./calculator.sh: line 7: echo"-----": command not found
a+b :468
./calculator.sh: line 9: echo"-----": command not found
a-b :123
./calculator.sh: line 11: echo"-----": command not found
a*b :42435
./calculator.sh: line 13: echo"-----": command not found
a/b :0
./calculator.sh: line 15: echo"-----": command not found
a%b :123
./calculator.sh: line 17: echo"-----": command not found
./calculator.sh: line 18: echo"-----END_OF_CALCULATION-----": command not found
[~]-[user@parrot]-[~]
$
```

EVEN OR ODD





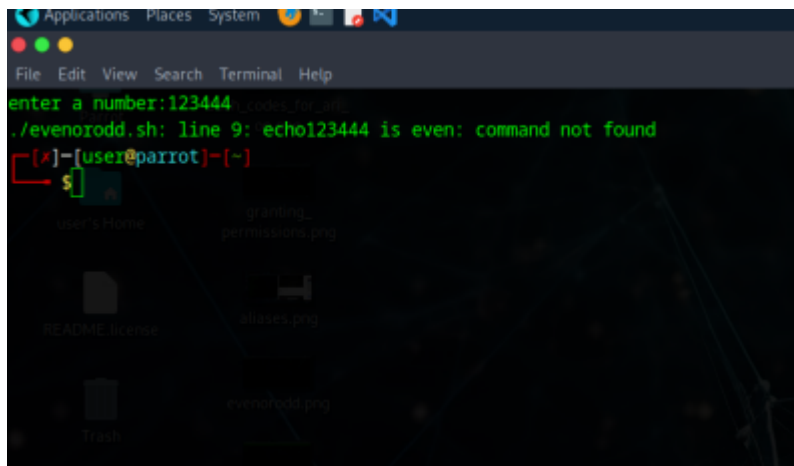
The screenshot shows a terminal window with the nano 7.2 editor. The script being edited is as follows:

```
#!/bin/bash

echo "enter the path"
read path

count=0
for file in "$path"/*;do
if [-x"$file"];then
((count++))
fi
done

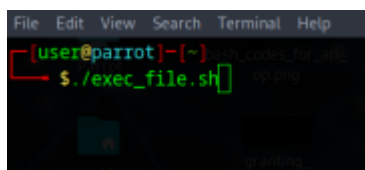
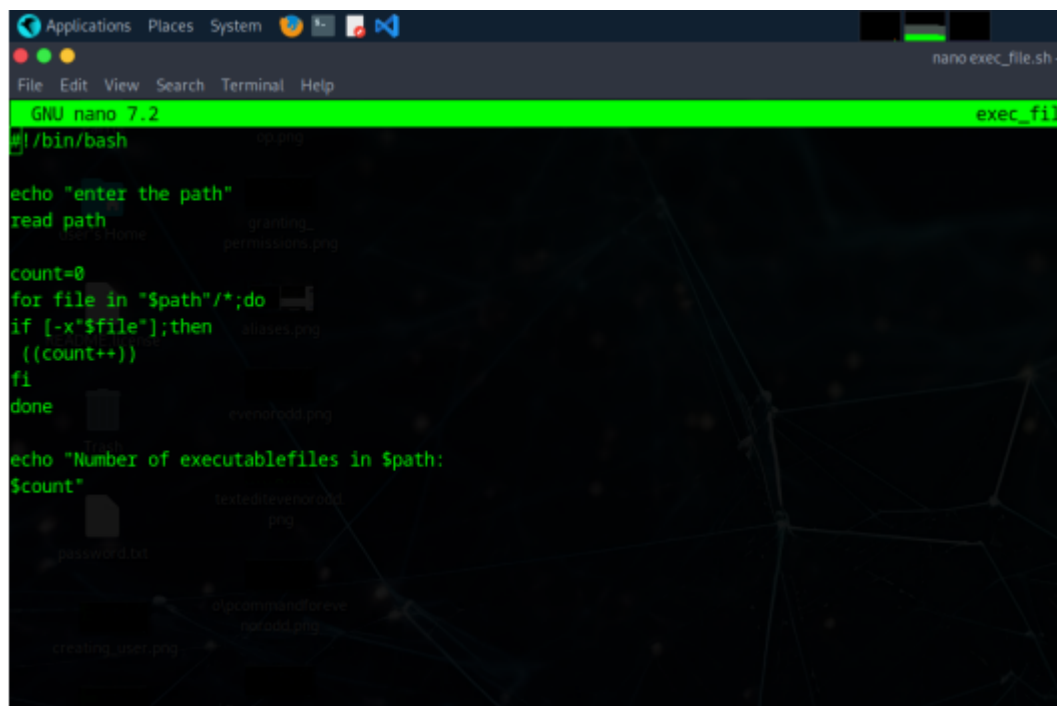
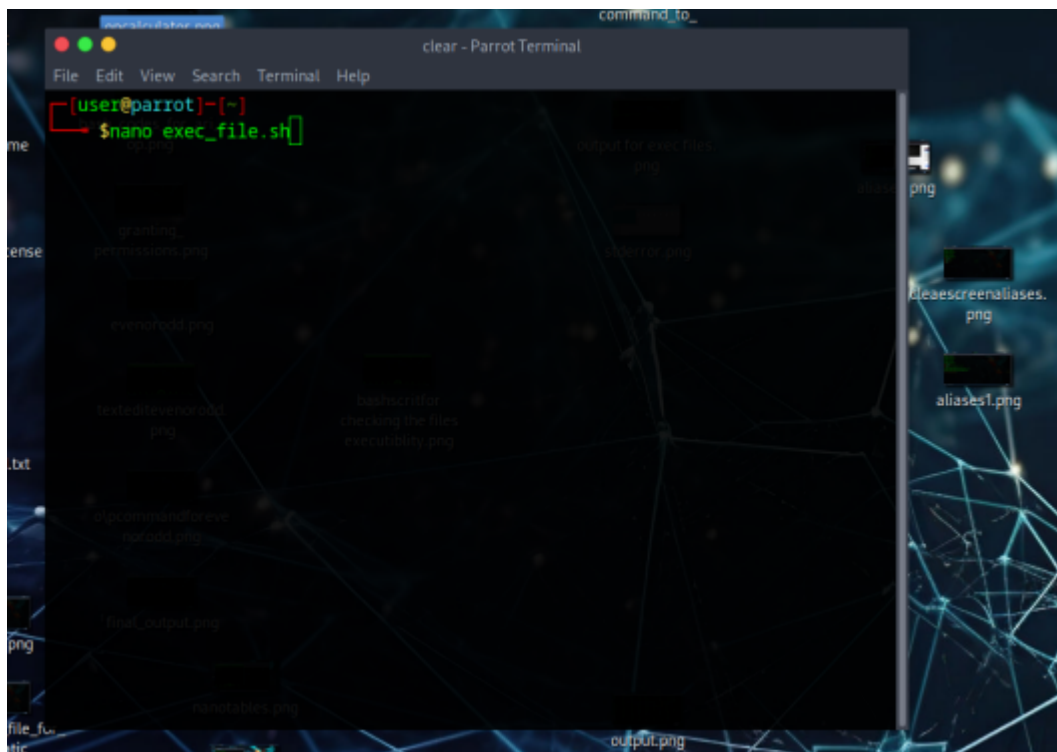
echo "Number of executablefiles in $path: $count"
```




The screenshot shows the terminal after running the script. The user entered the number 123444, and the script outputted an error message:

```
enter a number:123444
./evenorodd.sh: line 9: echo123444 is even: command not found
[~]-[user@parrot]-[~]
```

Write a script to list the number of executable in the path specified (given input)





```
Jexec_file.sh - Parrot Terminal
File Edit View Search Terminal Help
[user@parrot]-[~]
-- $ ./exec_file.sh
enter the path
/home/user/Documents
/exec_file.sh: line 8: [-x/home/user/Documents/*]: No such file or directory
Number of executablefiles in /home/user/Documents:

[user@parrot]-[~]
-- $ls
additional calculator.sh class Desktop Downloads exec_file.sh func_code link_hd.md main.sh Music Pictures sdclass.md tables.sh Videos
bashscript cap.md conditions Documents evenorodd.sh forloop hd_source.md main.py mingyu numbers Public sd.md Templates

[user@parrot]-[~]
-- $ ./exec_file.sh
enter the path
/home/user/Templates
/exec_file.sh: line 8: [-x/home/user/Templates/prog]: No such file or directory
/exec_file.sh: line 8: [-x/home/user/Templates/text]: No such file or directory
/exec_file.sh: line 8: [-x/home/user/Templates/web]: No such file or directory
Number of executablefiles in /home/user/Templates:

[user@parrot]-[~]
-- $
```

```

Applications Places System
File Edit View Search Terminal Help
ls --color=auto=IR/etc2> ~/Documents/mingyu - Parrot Terminal

anacrontab      cryptsetup-nuke-password  gai.conf        ipsec.conf      magic           nginx           rc1.d           smartmontools   ufw
anonsurf        crypttab            gdb             ipsec.d         magic.mime      nikto.conf     rc2.d           smi.conf         unicornscan
apache2         cups               geoclue        ipsec.secrets   mailcap         nsswitch.conf  rc3.d           snmp             update-motd.d
apparmor        cupshelpers        ghostscript     issue           mailcap.order   ntpsec         rc4.d           sound           UPower
apparmor.d      darkstat           gimp           issue.net       mailname        openal         rc5.d           sqlmap          usb_modeswitch.co
apt             dbus-1             glvnd          java-17-openjdk mail.rc         OpenCL         rc6.d           ssh             usb_modeswitch.d
arp-scan        dconf             gnome-system-tools john            manpath.config openfortivpn   rc5.d           ssl             vconsole.conf
arpwatch        debconf.conf       gprofng.rc     kernel          mate            mate-settings-daemon openssl         reader.conf.d   sslsplit        vdpau_wrapper.cfc
avahi           debian_version     groff          keyutils        meate           matplotlibrc   opensniitchd   reportbug.conf  strongswan.conf  vim
bash.bashrc     debuginfod        group          ld.so.cache     menu            mdatm          openvpn        request-key.conf strongswan.d      vmware-tools
bash_completion default            group-         ld.so.conf.d    menu            miredo         opt            request-key.d   stunrel          vpnnc
bash_completion.d deluser.conf      grub.d         ld.so.conf.d    menu            miredo         os-release     request-key.d   subgid           vulkan
bindresvport.blacklist dhcp              gshadow        letsencrypt     mime-types      miredo         os-resolve     resolv.conf      subuid           w3m
binfmt.d        dictionaries-common gss            libao.conf      miredo          miredo.conf    p8f            resolvconf      subuid           wgetrc
bluetooth       dkms              gtk-2.0        libaudit.conf   miredo          miredo-server.conf pam.conf        responder      subversion      wireshark
btscanner.dtd   dns2tcpd.conf     gtk-3.0        libblockdev     miredo          mke2fs.conf    pam.d          sudo            wodim.conf
btscanner.xml   dnsmasq.conf      gufw           libbcbid_Info.plist miredo          nks2fs.conf    papersize      sudo.conf       wpasupplicant
ca-certificates dnsmasq.d         guid-resolv.conf guymager        modprobe.d      modules         passwd         sudoers         X11
ca-certificates.conf dpkg             hdpam.conf    hostapd         lightdm          modules-load.d  passwrd        sudoers.d       xattr.conf
cczerc          e2scrub.conf      emacs          host.conf       live             locale.alias    mtab           security        sudo_logsrvd.conf xboard
chatscripts     email-addresses   environment    hostname        libiooffice     lighttpd        mpv            selinux         sv               xdg
chromium        environment.d     ethertypes     hosts           liblightdm       live            mtd            sensu           sysctl.conf     xl2tpd
chromium.d      ethtypes         ettercap       hosts.allow     liblighttpd      live            mtd            sensu           sysctl.d        xml
cisco-torch     exim4            firebird       hosts.deny      localtime        logcheck        mtools.conf   sensors3.conf   systemd         xrdp
console-setup   exim4            firefox        ifplugd         logcheck         login.defs      mysql          sensors.d       terminfo
cracklib        firebird          firefox-esr    inetism         logcheck         locale.conf     nanorc         services        timezone
credstore       firefo            ifplugd        logcheck        locale.gen        localtime       netconfig     sestatus.conf   timidity
credstore.encrypted cron.d            firefox-esr    inetism         logcheck         locale.conf     netconfig     sestatus.conf   tmpfiles.d
cron.d           cron.daily        cron.daily     cron.daily      cron.daily        cron.daily      cron.daily     cron.daily      cron.daily      cron.daily
[~]-[user@parrot]-[~]
$

```