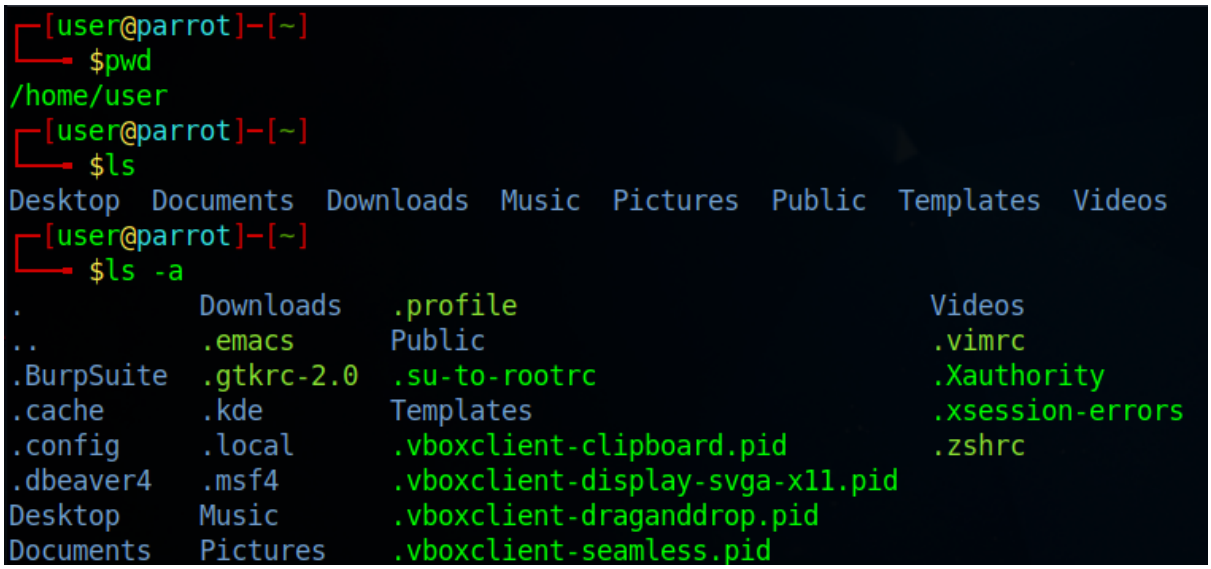
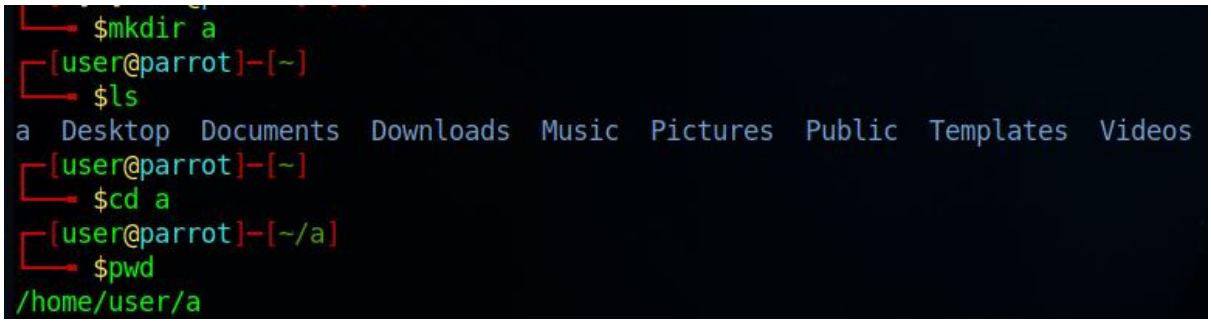
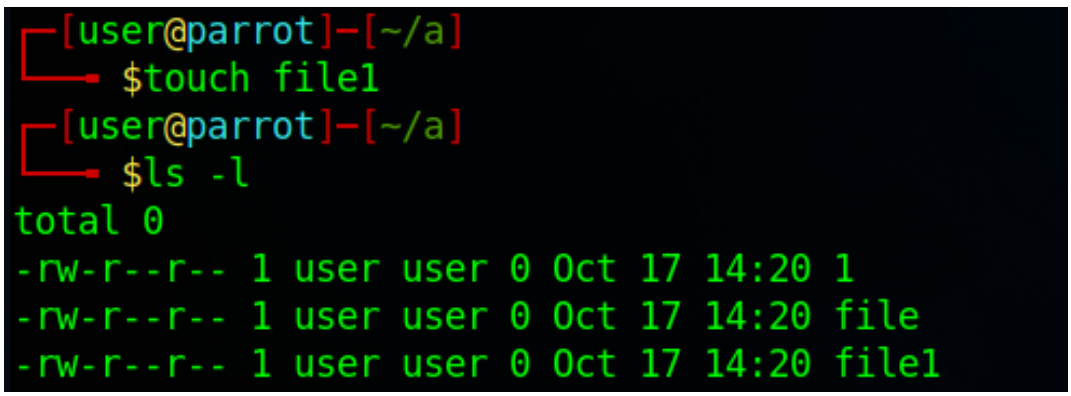
1.a)b)c)



2.a)b)



2.c)d)



2.e)

```
┌─[user@parrot]─[~/a]
└──╼ $echo "Hello World" > file1
┌─[user@parrot]─[~/a]
└──╼ $cat file1
Hello World
┌─[user@parrot]─[~/a]
└──╼ $file file1
file1: ASCII text
```

3.a)b)c)

```
┌─[user@parrot]─[~/a]
└──╼ $cat >> file2
First Line
Second Line
Third Line
^C
┌─[✗]─[user@parrot]─[~/a]
└──╼ $cat file2
First Line
Second Line
Third Line
┌─[user@parrot]─[~/a]
└──╼ $tac file2
Third Line
Second Line
First Line
```

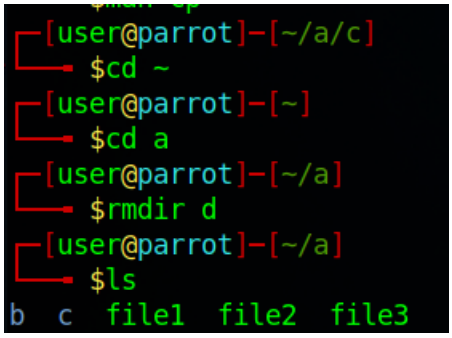
5.a)b)c)

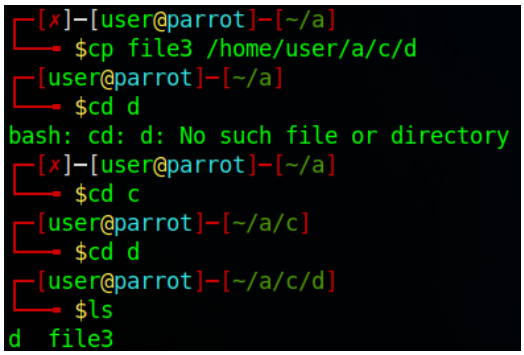
```
┌─[user@parrot]─[~/a]
└──╼ $mkdir b c
┌─[user@parrot]─[~/a]
└──╼ $ls
b  c  file1  file2  file3
┌─[user@parrot]─[~/a]
└──╼ $mkdir d
┌─[user@parrot]─[~/a]
└──╼ $ls
b  c  d  file1  file2  file3
```

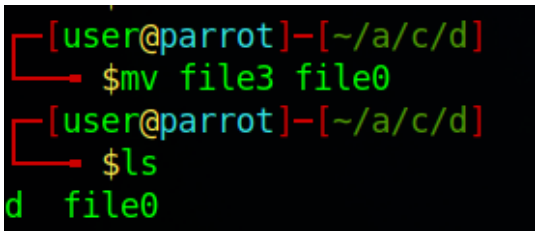
5.d)

```
┌─[✗]─[user@parrot]─[~/a]
└──╼ $cp -r d c
┌─[user@parrot]─[~/a]
└──╼ $cd c
┌─[user@parrot]─[~/a/c]
└──╼ $ls
d
```

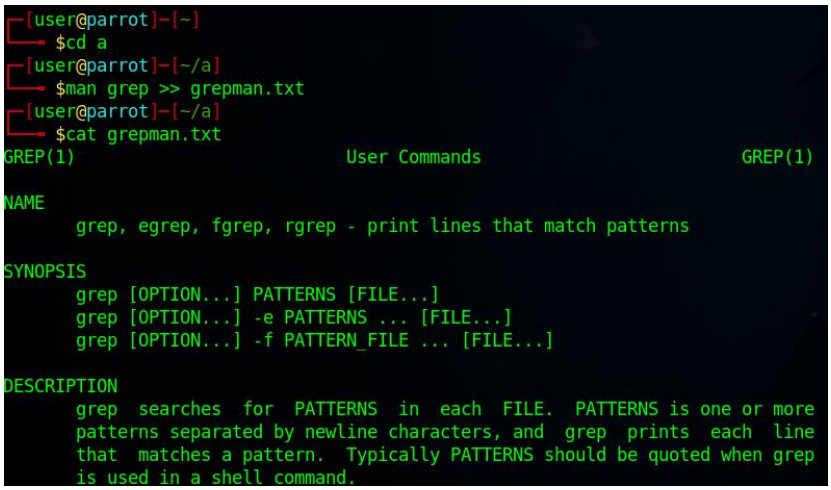
5.e)

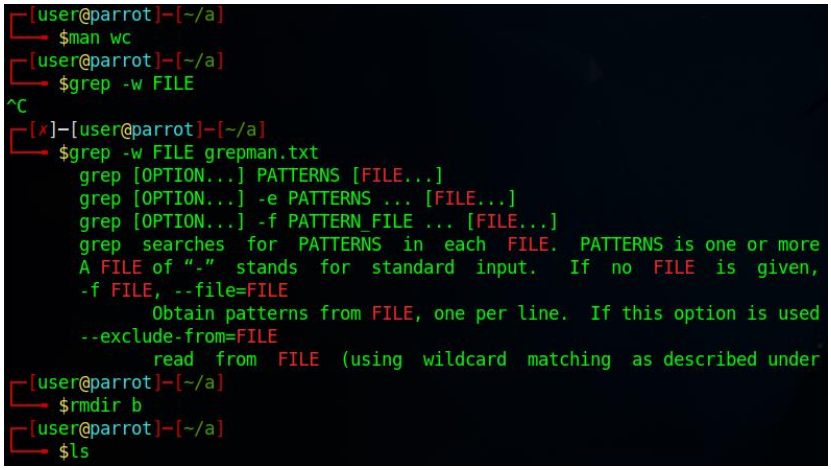

[user@parrot]-[~/a/c]
$cd ~
[user@parrot]-[~]
$cd a
[user@parrot]-[~/a]
$rmdir d
[user@parrot]-[~/a]
$ls
b c file1 file2 file3


[x]-[user@parrot]-[~/a]
$cp file3 /home/user/a/c/d
[user@parrot]-[~/a]
$cd d
bash: cd: d: No such file or directory
[x]-[user@parrot]-[~/a]
$cd c
[user@parrot]-[~/a/c]
$cd d
[user@parrot]-[~/a/c/d]
$ls
d file3

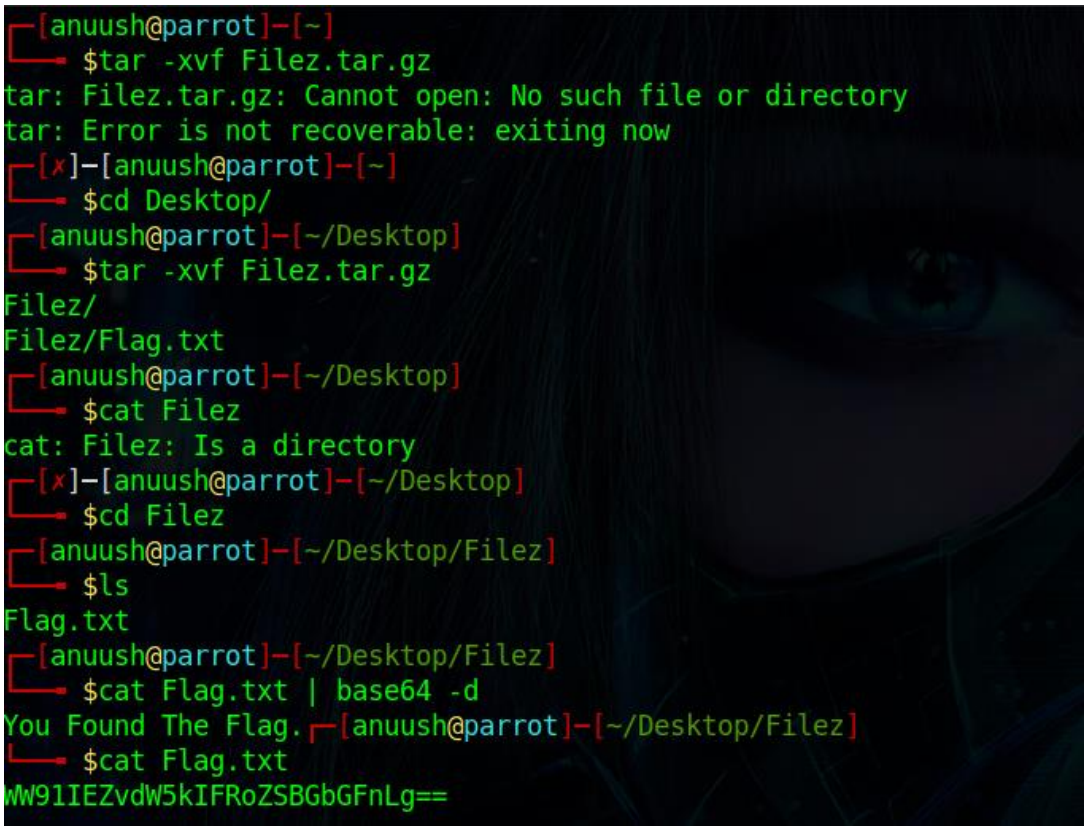

[user@parrot]-[~/a/c/d]
$mv file3 file0
[user@parrot]-[~/a/c/d]
$ls
d file0


[user@parrot]-[~]
$touch test
[user@parrot]-[~]
$ls
a Documents Music Public test
Desktop Downloads Pictures Templates Videos


[user@parrot]-[~]
$cd a
[user@parrot]-[~/a]
$man grep >> grepman.txt
[user@parrot]-[~/a]
$cat grepman.txt
GREP(1) User Commands GREP(1)
NAME
grep, egrep, fgrep, rgrep - print lines that match patterns
SYNOPSIS
grep [OPTION...] PATTERNS [FILE...]
grep [OPTION...] -e PATTERNS ... [FILE...]
grep [OPTION...] -f PATTERN_FILE ... [FILE...]
DESCRIPTION
grep searches for PATTERNS in each FILE. PATTERNS is one or more patterns separated by newline characters, and grep prints each line that matches a pattern. Typically PATTERNS should be quoted when grep is used in a shell command.


[user@parrot]-[~/a]
$man wc
[user@parrot]-[~/a]
$grep -w FILE
^C
[x]-[user@parrot]-[~/a]
$grep -w FILE grepman.txt
grep [OPTION...] PATTERNS [FILE...]
grep [OPTION...] -e PATTERNS ... [FILE...]
grep [OPTION...] -f PATTERN_FILE ... [FILE...]
grep searches for PATTERNS in each FILE. PATTERNS is one or more
A FILE of "-" stands for standard input. If no FILE is given,
-f FILE, --file=FILE
Obtain patterns from FILE, one per line. If this option is used
--exclude-from=FILE
read from FILE (using wildcard matching as described under
[user@parrot]-[~/a]
$rmdir b
[user@parrot]-[~/a]
$ls


[user@parrot]-[~/a]
$rmdir b
[user@parrot]-[~/a]
$ls
c file1 file2 file3 grepman.txt
[user@parrot]-[~/a]
$rm -rf file*
[user@parrot]-[~/a]
$ls
c grepman.txt


[anuush@parrot]-[~]
$tar -xvf Filez.tar.gz
tar: Filez.tar.gz: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
[x]-[anuush@parrot]-[~]
$cd Desktop/
[anuush@parrot]-[~/Desktop]
$tar -xvf Filez.tar.gz
Filez/
Filez/Flag.txt
[anuush@parrot]-[~/Desktop]
$cat Filez
cat: Filez: Is a directory
[x]-[anuush@parrot]-[~/Desktop]
$cd Filez
[anuush@parrot]-[~/Desktop/Filez]
$ls
Flag.txt
[anuush@parrot]-[~/Desktop/Filez]
$cat Flag.txt | base64 -d
You Found The Flag.[anuush@parrot]-[~/Desktop/Filez]
$cat Flag.txt
WW91IEZvdW5kIFRoZSBGbGFnLg==

```
┌[anuush@parrot]-[~]
└─ $wget logo.png https://blog.bi0s.in/
--2022-10-24 22:46:09--  http://logo.png/
Resolving logo.png (logo.png)... failed: Name or service not known.
wget: unable to resolve host address ‘logo.png’
--2022-10-24 22:46:09--  https://blog.bi0s.in/
Resolving blog.bi0s.in (blog.bi0s.in)... 104.21.14.171, 172.67.160.22, 2606:4700
:83bf:1ee4:8dc6:2d8:daa3:2e46
Connecting to blog.bi0s.in (blog.bi0s.in)|104.21.14.171|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: ‘index.html’

index.html              [  <=>               ]  26.49K  77.2KB/s    in 0.3s

2022-10-24 22:46:10 (77.2 KB/s) - ‘index.html’ saved [27127]

FINISHED --2022-10-24 22:46:10--
Total wall clock time: 1.4s
Downloaded: 1 files, 26K in 0.3s (77.2 KB/s)
```

```
┌[anuush@parrot]-[~]
└─ $curl -o logo.png https://blog.bi0s.in/
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 27128    0 27128    0     0  19166      0 --:--:--  0:00:01 --:--:-- 19158
```

```
┌[anuush@parrot]-[~]
└─ $ping google.com
PING google.com (142.250.193.110) 56(84) bytes of data.
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=1 ttl=52 tim
e=15.2 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=2 ttl=52 tim
e=14.9 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=3 ttl=52 tim
e=15.2 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=4 ttl=52 tim
e=15.0 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=5 ttl=52 tim
e=16.3 ms
```

```
┌[anuush@parrot]-[~]
└─$ping google.com
PING google.com (142.250.193.110) 56(84) bytes of data.
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=1 ttl=52 tim
e=17.7 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=2 ttl=52 tim
e=14.8 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=3 ttl=52 tim
e=15.5 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=4 ttl=52 tim
e=15.8 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=5 ttl=52 tim
e=15.6 ms
64 bytes from maa05s24-in-f14.1e100.net (142.250.193.110): icmp_seq=6 ttl=52 tim
e=16.5 ms
^C
--- google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5066ms
rtt min/avg/max/mdev = 14.833/15.992/17.686/0.905 ms
```

```
┌[anuush@parrot]-[~]
└─$telnet localhost
Trying ::1...
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Parrot OS 5.1
parrot login: anuush
Password:
Linux parrot 6.0.0-2parrot1-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.0.2-1parrot1
2022-10-18) x86_64
 ____                      _       ____
|  _ \ __ _ _ __ _ __ ___ | |_  / ___|  ___  ___
| |_) / _` | '__| '__/ _ \| __| \___ \ / _ \/ __|
|  __/ (_| | |  | | | (_) | |_   ___) |  __/ (__
|_|   \__,_|_|  |_|  \___/ \__| |____/ \___|\___|



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

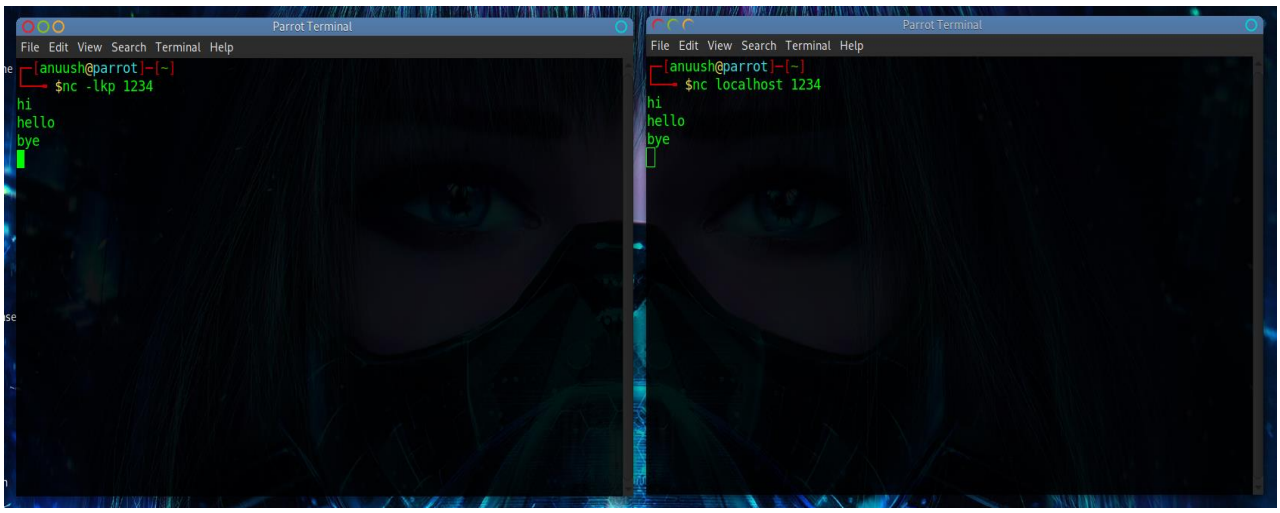
```
bandit0@bandit:~$ ls
readme
bandit0@bandit:~$ cat readme
NH2SXQwcBdpmTEzi3bvBHMM9H66vVXjL
```

```
┌[anuush@parrot]-[~]
└─$nmap localhost
Starting Nmap 7.92 ( https://nmap.org ) at 2022-11-02 19:17 IST
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000062s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 999 closed tcp ports (conn-refused)
PORT   STATE SERVICE
23/tcp open  telnet

Nmap done: 1 IP address (1 host up) scanned in 0.08 seconds
```

```
┌[anuush@parrot]-[~]
└─$nmap scanme.nmap.org
Starting Nmap 7.92 ( https://nmap.org ) at 2022-11-02 19:19 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.0067s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2
f
Not shown: 993 filtered tcp ports (no-response)
PORT     STATE SERVICE
21/tcp   open  ftp
80/tcp   open  http
110/tcp  open  pop3
143/tcp  open  imap
443/tcp  open  https
2000/tcp open  cisco-sccp
8010/tcp open  xmpp

Nmap done: 1 IP address (1 host up) scanned in 25.73 seconds
```



```
 GNU nano 5.4
 1 S#!/bin/bash
 2 echo 'Enter 1 for addition'
 3 echo 'Enter 2 for subtraction'
 4 echo 'Enter 3 for multiplication'
 5 echo 'Enter 4 for division'
 6 echo 'Enter 5 for average'
 7 read n
 8 read a
 9 read b
10 if [ $n -eq 1 ]
11 then
12 sum=`expr $a + $b`
13 echo $sum
14 elif [ $n -eq 2 ]
15 then
16 sub=`expr $a - $b`
17 echo $sub
18 elif [ $n -eq 3 ]
19 then
20 mul=`expr $a \* $b`
21 echo $mul
22 elif [ $n -eq 4 ]
23 then
24 div=`expr $a / $b`
25 echo $div
26 elif [ $n -eq 5 ]
27 then
28 sum=`expr $a + $b`
29 avg=`expr $sum / 2`
30 echo $avg
31 else
32 echo 'Enter valid statement'
33 fi
34
```

```
┌─[anuush@parrot]─[~]
└──╼ $./sum.sh
Enter 1 for addition
Enter 2 for subtraction
Enter 3 for multiplication
Enter 4 for division
Enter 5 for average
4
6
3
2
┌─[anuush@parrot]─[~]
└──╼ $./sum.sh
Enter 1 for addition
Enter 2 for subtraction
Enter 3 for multiplication
Enter 4 for division
Enter 5 for average
5
4
4
4
```

```
 GNU nano 5.4                          rot13.sh
 1 echo 'Enter the string:'
 2 read a
 3 echo 'Enter 1 for ROT13 Encode'
 4 echo 'Enter 2 for ROT13 Decode'
 5 read n
 6 if [ $n -eq 1 ]
 7 then
 8 x=$(echo "$a" | tr 'a-zA-Z' 'n-za-mN-ZA-M')
 9 echo $x
10 elif [ $n -eq 2 ]
11 then
12 x=$(echo "$a" | tr 'a-zA-Z' 'n-za-mN-ZA-M')
13 echo $x
14 else
15 echo 'Enter correct statement'
16 fi
```

```
┌─[anuush@parrot]─[~]
└──╼ $./rot13.sh
Enter the string:
anuush
Enter 1 for ROT13 Encode
Enter 2 for ROT13 Decode
1
nahhfu
┌─[anuush@parrot]─[~]
└──╼ $./rot13.sh
Enter the string:
nahhfu
Enter 1 for ROT13 Encode
Enter 2 for ROT13 Decode
2
anuush
```

```
 GNU nano 5.4                          bubble_sort.sh
 1 echo "Enter a number"
 2 read n
 3 echo "Enter an array"
 4 for (( i = 0; i < $n; i++ ))
 5 do
 6 read arr[$i]
 7 done
 8 for ((i = 0; i<4; i++))
 9 do
10     for((j = 0; j<4-i-1; j++))
11     do
12         if [ ${arr[j]} -gt ${arr[$((j+1))]} ]
13         then
14             temp=${arr[j]}
15             arr[$j]=${arr[$((j+1))]}
16             arr[$((j+1))]=$temp
17         fi
18     done
19 done
20
```

```
[anuush@parrot]-[~]
    $./bubble_sort.sh
Enter a number
5
Enter an array
4
3
7
8
6
Array in sorted order :
3 4 7 8 6
```

```
 GNU nano 5.4
1 echo enter n
2 read n
3 a=$( echo "$n" | rev )
4 if [ $a -eq $n ]
5 then
6 echo is a palindrom
7 else
8 echo is not a palindrom
9 fi
```

```
[anuush@parrot]-[~/Desktop]
    $./palindrom.sh
enter n
1234
is not a palindrom
[anuush@parrot]-[~/Desktop]
    $./palindrom.sh
enter n
2222
is a palindrom
```

```
[anuush@parrot]-[~]
    $cat itachi.jfif | nc -lkp 1234
^C
[✗]-[anuush@parrot]-[~]
    $ls
abc.jfif        bubble_sort.sh.save  Downloads    logo.png  Public     Templates
a.txt           Desktop              index.html   Music     rot13.sh   Videos
bubble_sort.sh  Documents            itachi.jfif  Pictures  sum.sh
```

```
[anuush@parrot]-[~]
    $nc localhost 1234 > abc.jfif
```