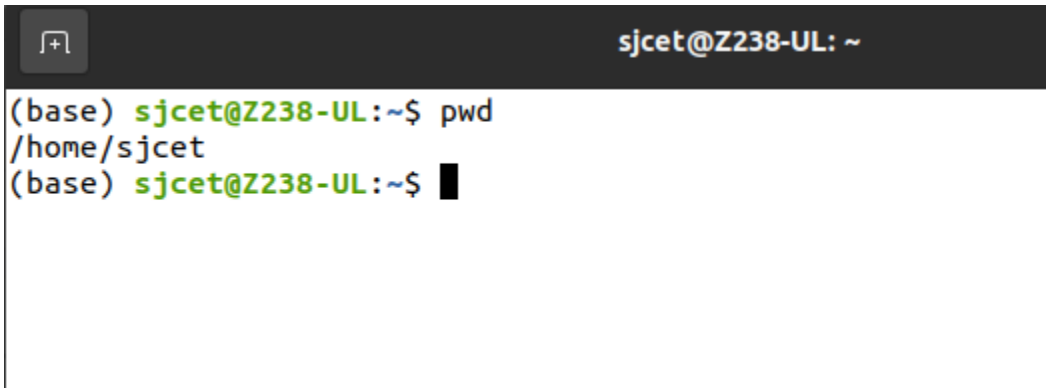
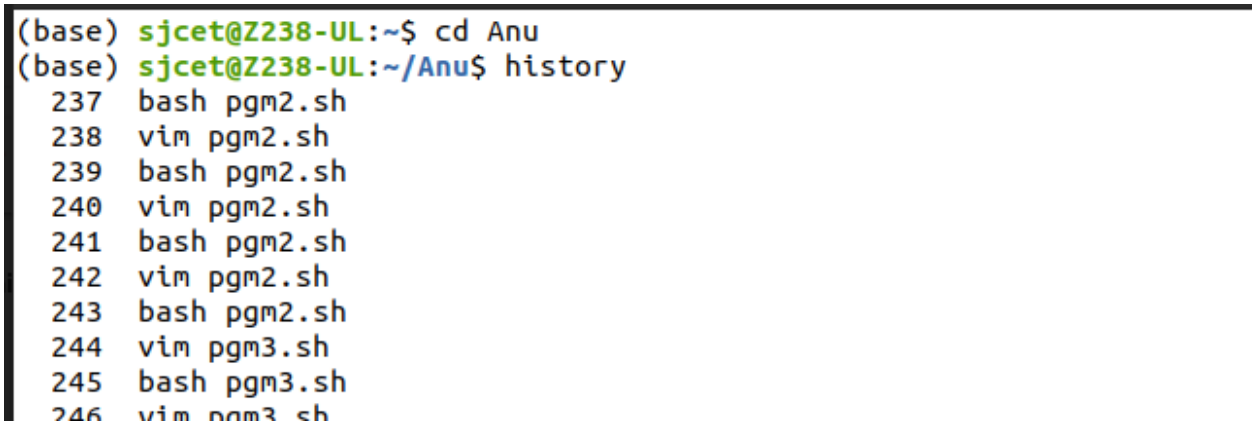
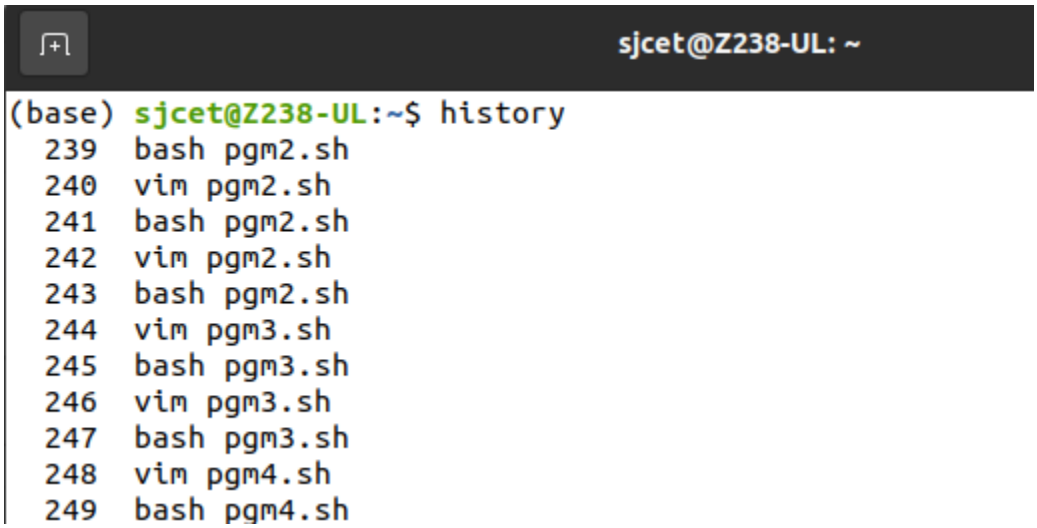
BASIC LINUX COMMAND

1. pwd

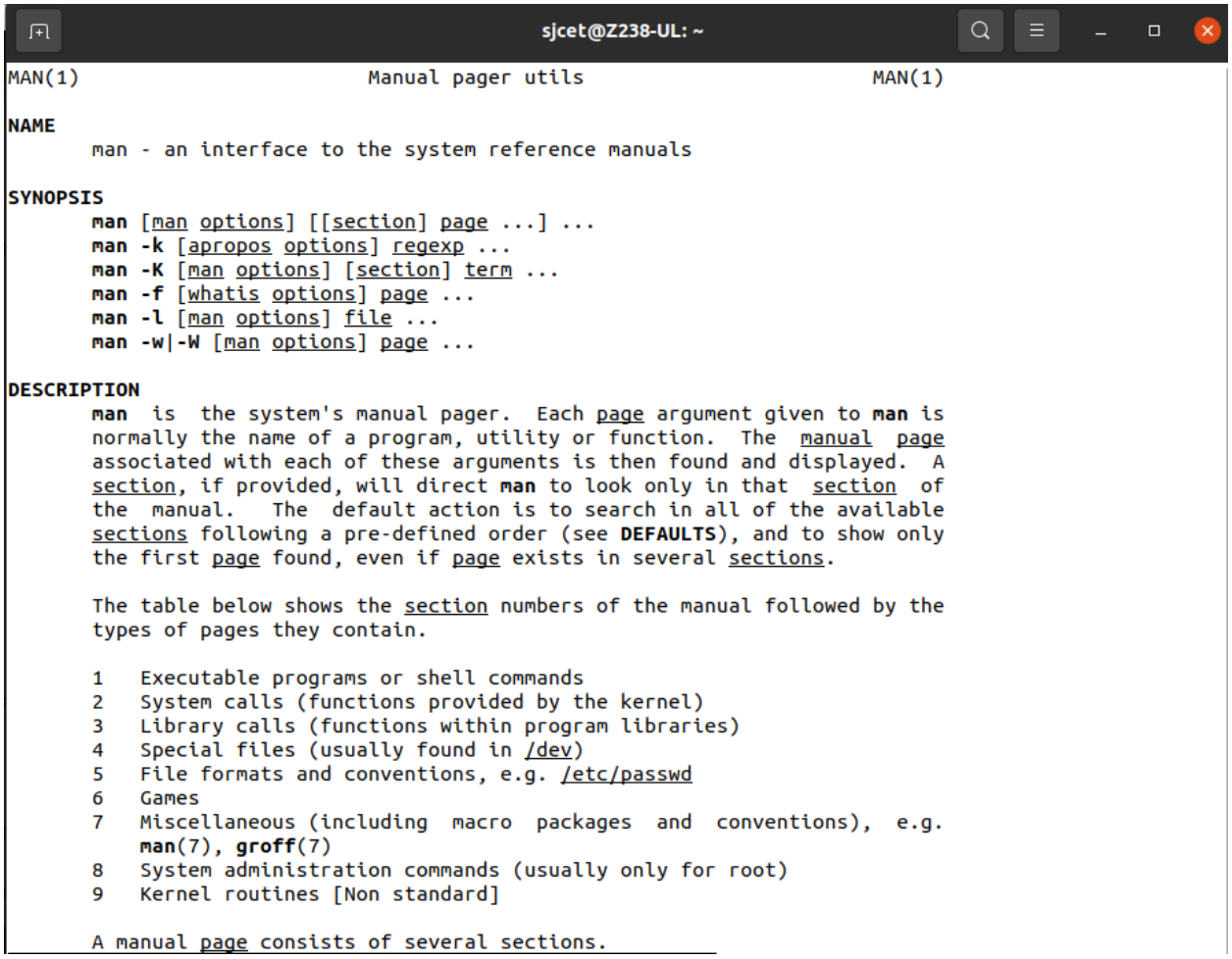


2. history :

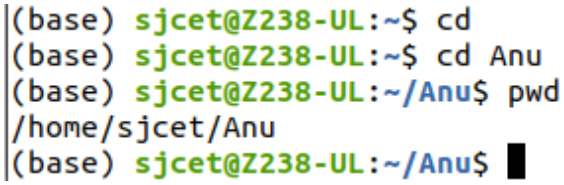




3.man


sjcet@Z238-UL: ~
MAN(1) Manual pager utils MAN(1)
NAME
man - an interface to the system reference manuals
SYNOPSIS
man [man options] [[section] page ...] ...
man -k [apropos options] regexp ...
man -K [man options] [section] term ...
man -f [whatis options] page ...
man -l [man options] file ...
man -w|-W [man options] page ...
DESCRIPTION
man is the system's manual pager. Each page argument given to man is normally the name of a program, utility or function. The manual page associated with each of these arguments is then found and displayed. A section, if provided, will direct man to look only in that section of the manual. The default action is to search in all of the available sections following a pre-defined order (see DEFAULTS), and to show only the first page found, even if page exists in several sections.
The table below shows the section numbers of the manual followed by the types of pages they contain.
1 Executable programs or shell commands
2 System calls (functions provided by the kernel)
3 Library calls (functions within program libraries)
4 Special files (usually found in /dev)
5 File formats and conventions, e.g. /etc/passwd
6 Games
7 Miscellaneous (including macro packages and conventions), e.g. man(7), groff(7)
8 System administration commands (usually only for root)
9 Kernel routines [Non standard]
A manual page consists of several sections.

4. cd


(base) sjcet@Z238-UL:~$ cd
(base) sjcet@Z238-UL:~$ cd Anu
(base) sjcet@Z238-UL:~/Anu$ pwd
/home/sjcet/Anu
(base) sjcet@Z238-UL:~/Anu$

5. ls

```
(base) sjcet@Z238-UL:~/Anu$ ls
array.sh   fact.sh            largest.sh  process.sh    sumofn.sh
avg.sh     first.sh           ls          stringcmp.sh  swap.sh
circle.sh  fistn.sh           oddeven.sh  sumn.sh       while_example.sh
eveodd.sh  largestofthree.sh  oddeve.sh   sumofdig.sh
(base) sjcet@Z238-UL:~/Anu$
```

6. mkdir

```
(base) sjcet@Z238-UL:~$ mkdir sample
(base) sjcet@Z238-UL:~$ pwd
/home/sjcet
(base) sjcet@Z238-UL:~$ ls
 a                       Music
 abin                    Naive_Bayes.ipynb
 Aby                     NetBeansProjects
 Aby_Joseph              nltk_data
 anaconda3               'openkiosk-47.0.2.2-2017-05-11-x86_64(1)'
 Android                 Pictures
 AndroidStudioProjects   Public
 Anu                     R
 average                 sample
 b                       'simple linear regresion.ipynb'
 customer_data.csv       sjcet-official.jpg
 Desktop                 snap
 Documents               student.gif
 Downloads               student_scores.csv
 examples.desktop        Templates
 exam-user.jpg           Untitled1.ipynb
 First.sh                Untitled2.ipynb
 iris.csv                Untitled3.ipynb
 joseph                  Untitled4.ipynb
 Joseph                  Untitled.ipynb
 kite-installer          Videos
'linux lab'
(base) sjcet@Z238-UL:~$
```

7.rmdir

```
(base) sjcet@Z238-UL:~$ rmdir sample
(base) sjcet@Z238-UL:~$ ls
 a                        'linux lab'
 abin                      Music
 Aby                       Naive_Bayes.ipynb
 Aby_Joseph                NetBeansProjects
 anaconda3                 nltk_data
 Android                  'openkiosk-47.0.2.2-2017-05-11-x86_64(1)'
 AndroidStudioProjects     Pictures
 Anu                       Public
 average                   R
 b                        'simple linear regresion.ipynb'
 customer_data.csv         sjcet-official.jpg
 Desktop                   snap
 Documents                 student.gif
 Downloads                 student_scores.csv
 examples.desktop          Templates
 exam-user.jpg             Untitled1.ipynb
 First.sh                  Untitled2.ipynb
 iris.csv                  Untitled3.ipynb
 joseph                    Untitled4.ipynb
 Joseph                    Untitled.ipynb
 kite-installer            Videos
```

8. Touch

```
(base) sjcet@Z238-UL:~/demo$ touch sample.txt
(base) sjcet@Z238-UL:~/demo$ ls
sample.txt
(base) sjcet@Z238-UL:~/demo$
```

9.rm

```
(base) sjcet@Z238-UL:~/demo$ ls
sample.txt  test
(base) sjcet@Z238-UL:~/demo$ rm test
(base) sjcet@Z238-UL:~/demo$ ls
sample.txt
(base) sjcet@Z238-UL:~/demo$
```

10. Cat

```
(base) sjcet@Z238-UL:~/demo$ ls
first.txt  sample.txt
(base) sjcet@Z238-UL:~/demo$ cat first.txt
hello..first program
(base) sjcet@Z238-UL:~/demo$
```

40.top

```
(base) sjcet@Z238-UL:~/demo$ top

top - 14:51:32 up 32 min,  1 user,  load average: 0.86, 0.66, 0.88
Tasks: 255 total,   2 running, 253 sleeping,   0 stopped,   0 zombie
%Cpu(s): 11.3 us,  7.5 sy,  0.0 ni, 81.1 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   7763.6 total,   2139.2 free,   1815.1 used,   3809.3 buff/cache
MiB Swap:   2048.0 total,   2048.0 free,      0.0 used.   5225.0 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND

   1819 sjcet     20   0  544344  94708  59452 R  25.0   1.2   2:10.31 Xorg

   1953 sjcet     20   0 4481792 281744 113528 S  25.0   3.5   2:39.11 gnome-shell

   4553 sjcet     20   0  818356  53164  40600 S  16.7   0.7   0:11.61 gnome-terminal-

   5323 sjcet     20   0   12216   4056   3340 R  16.7   0.1   0:00.35 top

    190 root      20   0       0      0      0 D   8.3   0.0   0:00.78 kworker/u8:4

      1 root      20   0  169196  13268   8380 S   0.0   0.2   0:05.17 systemd

      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd

      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H

      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq

      7 root      20   0       0      0      0 S   0.0   0.0   0:00.05 ksoftirqd/0

      8 root      20   0       0      0      0 I   0.0   0.0   0:02.19 rcu_sched

      9 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_bh

top - 14:51:32 up 32 min,  1 user,  load average: 0.86, 0.66, 0.88
Tasks: 255 total,   2 running, 253 sleeping,   0 stopped,   0 zombie
```

41.wc

```
(base) sjcet@Z238-UL:~/demo$ wc first.txt
 1  2 21 first.txt
(base) sjcet@Z238-UL:~/demo$
```

42. Tar

tar

```
(base) sjcet@Z238-UL:~/demo$ tar
tar: You must specify one of the '-Acdtrux', '--delete' or '--test-label' options
Try 'tar --help' or 'tar --usage' for more information.
(base) sjcet@Z238-UL:~/demo$
```

43. Expr

expr 10 + 5

```
(base) sjcet@Z238-UL:~/demo$ expr 10 + 5
15
(base) sjcet@Z238-UL:~/demo$
```

44.

45. ssh

```
(base) sjcet@Z238-UL:~/demo$ ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]
           [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]
           [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11]
           [-i identity_file] [-J [user@]host[:port]] [-L address]
           [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
           [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
           [-w local_tun[:remote_tun]] destination [command]
(base) sjcet@Z238-UL:~/demo$
```

46.scp

```
(base) sjcet@Z238-UL:~/demo$ scp
usage: scp [-346BCpqrTv] [-c cipher] [-F ssh_config] [-i identity_file]
           [-J destination] [-l limit] [-o ssh_option] [-P port]
           [-S program] source ... target
(base) sjcet@Z238-UL:~/demo$
```

48 . Touch

touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3
touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg
touch film1.mp4 film2.mp4 film3.mp4 film4.mp4 film5.mp4 film6.mp4

```
(base) sjcet@Z238-UL:~/demo$ touch song1.mp3 song2.mp3 song3.mp3 song4.mp3 song5.mp3 song6.mp3
(base) sjcet@Z238-UL:~/demo$ touch snap1.jpg snap2.jpg snap3.jpg snap4.jpg snap5.jpg snap6.jpg
(base) sjcet@Z238-UL:~/demo$ touch film1.mp4 film2.mp4 film3.mp4 film4.mp4 film5.mp4 film6.mp4
(base) sjcet@Z238-UL:~/demo$
```

49.mv

mv *.jpg ~/Pictures

```
(base) sjcet@Z238-UL:~/demo$ ls
film1.mp4  film4.mp4  first.txt   snap1.jpg  snap4.jpg  song1.mp3  song4.mp3
film2.mp4  film5.mp4  pictures    snap2.jpg  snap5.jpg  song2.mp3  song5.mp3
film3.mp4  film6.mp4  sample.txt  snap3.jpg  snap6.jpg  song3.mp3  song6.mp3
(base) sjcet@Z238-UL:~/demo$ mv *.jpg ~/Pictures
(base) sjcet@Z238-UL:~/demo$ ls
film1.mp4  film3.mp4  film5.mp4  first.txt  sample.txt  song2.mp3  song4.mp3  song6.mp3
film2.mp4  film4.mp4  film6.mp4  pictures   song1.mp3   song3.mp3  song5.mp3
(base) sjcet@Z238-UL:~/demo$
```

```
(base) sjcet@Z238-UL:~/demo$ mv *.mp4 ~/Videos
(base) sjcet@Z238-UL:~/demo$ mv *.mp3 ~/Music
(base) sjcet@Z238-UL:~/demo$ ls
first.txt  pictures  sample.txt
(base) sjcet@Z238-UL:~/demo$
```

50.

mkdir -p {friends,family,work}

```
(base) sjcet@Z238-UL:~/demo$ mkdir -p {friends,family,work}
(base) sjcet@Z238-UL:~/demo$ ls
family  first.txt  friends  pictures  sample.txt  work
(base) sjcet@Z238-UL:~/demo$
```

51.

cp *.jpg ~/demo/family

cp *.mp3 ~/demo/friends

```
(base) sjcet@Z238-UL:~/demo/family$ ls
(base) sjcet@Z238-UL:~/demo/family$ cd ..
(base) sjcet@Z238-UL:~/demo$ cp *.jpg ~/demo/family
(base) sjcet@Z238-UL:~/demo$ ls
family     friends   sample.txt  snap2.jpg  snap4.jpg  snap6.jpg  song2.mp3  song4.mp3  song6.mp3
first.txt  pictures  snap1.jpg   snap3.jpg  snap5.jpg  song1.mp3  song3.mp3  song5.mp3  work
(base) sjcet@Z238-UL:~/demo$ cd family
(base) sjcet@Z238-UL:~/demo/family$ ls
snap1.jpg  snap2.jpg  snap3.jpg  snap4.jpg  snap5.jpg  snap6.jpg
(base) sjcet@Z238-UL:~/demo/family$
```

```
(base) sjcet@Z238-UL:~/demo$ cp *.mp3 ~/demo/friends
(base) sjcet@Z238-UL:~/demo$ cd friends
(base) sjcet@Z238-UL:~/demo/friends$ ls
song1.mp3  song2.mp3  song3.mp3  song4.mp3  song5.mp3  song6.mp3
(base) sjcet@Z238-UL:~/demo/friends$
```

52. rmdir {friends,family}

```
(base) sjcet@Z238-UL:~/demo$ ls
family     friends   sample.txt  snap2.jpg  snap4.jpg  snap6.jpg  song2.mp3  song4.mp3  song6.mp3
first.txt  pictures  snap1.jpg   snap3.jpg  snap5.jpg  song1.mp3  song3.mp3  song5.mp3  work
(base) sjcet@Z238-UL:~/demo$ rmdir {friends,family}
(base) sjcet@Z238-UL:~/demo$ ls
first.txt  sample.txt  snap2.jpg  snap4.jpg  snap6.jpg  song2.mp3  song4.mp3  song6.mp3
pictures   snap1.jpg   snap3.jpg  snap5.jpg  song1.mp3  song3.mp3  song5.mp3  work
(base) sjcet@Z238-UL:~/demo$
```

53.

54.

ls -a > allfiles.txt

```
(base) sjcet@Z238-UL:~/demo$ ls -a > allfiles.txt
(base) sjcet@Z238-UL:~/demo$ cat allfiles.txt
.
..
allfiles.txt
first.txt
pictures
sample.txt
snap1.jpg
snap2.jpg
snap3.jpg
snap4.jpg
snap5.jpg
snap6.jpg
song1.mp3
song2.mp3
song3.mp3
song4.mp3
song5.mp3
song6.mp3
work
(base) sjcet@Z238-UL:~/demo$
```

55. date

```
(base) sjcet@Z238-UL:~/demo$ date
Tuesday 14 June 2022 04:02:46 PM IST
(base) sjcet@Z238-UL:~/demo$
```

56.

sudo user tempuser

```
(base) sjcet@Z238-UL:~/demo$ sudo user tempuser
[sudo] password for sjcet:
```

57. cat /etc/passwd | grep tempuser

```
(base) sjcet@Z238-UL:~/demo$ cat /etc/passwd | grep tempuser
(base) sjcet@Z238-UL:~/demo$
```

58. sudo passwd tempuser

```
(base) sjcet@Z238-UL:~/demo$ sudo passwd tempuser
[sudo] password for sjcet:
```

Shell Scripting

1. Write a shell script to ask your name, and college name and print it on the screen.

```
echo "enter your name"
read name
echo "enter your college"
read clg
echo "details you entered are:"
echo "Name:"$name
echo "College:"$clg
```

```
(base) sjcet@Z238-UL:~/Anu$ ./Firts.sh
enter your name
Anu
enter your college
SJCET
details you entered are:
Name:Anu
College:SJCET
```

2. Write a shell script to set a value for a variable and display it on command line interface.

```
echo "display value of a variable"
a=50
echo $a
```

```
(base) sjcet@Z238-UL:~/demo$ ./value.sh
display value of a variable
50
(base) sjcet@Z238-UL:~/demo$ vim value.sh
(base) sjcet@Z238-UL:~/demo$
```

3.Write a shell script to perform addition, substation, multiplication, division with two numbers that is accepted from user.

```
echo enter a number
read a
echo enter another number
read b
echo enter operation
echo "\n1.addition \n2.subtraction \n3.multiplication \n4.division"
read op
case "$op" in
"1") echo "a+b="$(($a+$b));;
"2") echo "a-b="$(($a-$b));;
"3") echo "a*b="$(($a*$b));;
"4") echo "a/b="$(($a/$b));;
esac
~
```

```
(base) sjcet@Z238-UL:~/demo$ ./third.sh
enter a number
5
enter another number
5
enter operation
\n1.addition \n2.subtraction \n3.multiplication \n4.division
1
a+b=10
(base) sjcet@Z238-UL:~/demo$
```

4. Write a shell script to check the value of a given number and display whether the number is found or not.

```
echo enter a number
read a
if [ $a -eq 10 ];
then
echo "number found"
else
echo "not found"
fi
~
~
```

```
(base) sjcet@Z238-UL:~/demo$ ./fourth.sh
enter a number
14
not found
(base) sjcet@Z238-UL:~/demo$
```

14. Write a shell script to find the sum of digits

```
echo enter a number
read n
s=0
while [ $n -gt 0 ]
do
mod=$((n%10))
s=$((s+mod))
n=$((n/10))
done
echo "sum of digit is $s"
~
~
```

```
(base) sjcet@Z238-UL:~/demo$ ./avg.sh
enter a number
678
sum of digit is 21
(base) sjcet@Z238-UL:~/demo$
```

15. Write a shell Script to check whether given year is leap year or not.

```
echo enter year
read y
a=$(($y%4))
b=$(($y%100))
c=$(($y%400))
if [ $a -eq 0 -a $b -ne 0 -o $c -eq 0 ];
then
echo "$y is leap year"
else
echo "$y is leap year"
fi
~
~
```

```
(base) sjcet@Z238-UL:~/demo$ ./leapyr.sh
enter year
1994
1994 is leap year
(base) sjcet@Z238-UL:~/demo$
```