

Macintosh HD — -zsh — 96x31

```
Last login: Thu Jan 20 14:24:19 on ttys000
[anoobvalath@Anoobs-MBP ~ % man
What manual page do you want?
[anoobvalath@Anoobs-MBP ~ % man man\
> s
^C
[anoobvalath@Anoobs-MBP ~ % man man
[anoobvalath@Anoobs-MBP ~ % cd /
[anoobvalath@Anoobs-MBP / % lss
zsh: command not found: lss
[anoobvalath@Anoobs-MBP / % ls
Applications      Users      cores      home      sbin      var
Library          Volumes     dev        opt       tmp
System           bin         etc        private   usr
[anoobvalath@Anoobs-MBP / % cat /etc/passwd
##
# User Database
#
# Note that this file is consulted directly only when the system is running
# in single-user mode. At other times this information is provided by
# Open Directory.
#
# See the opendirectoryd(8) man page for additional information about
# Open Directory.
##
nobody:*:-2:-2:Unprivileged User:/var/empty:/usr/bin/false
root:*:0:0:System Administrator:/var/root:/bin/sh
daemon:*:1:1:System Services:/var/root:/usr/bin/false
_uucp:*:4:4:Unix to Unix Copy Protocol:/var/spool/uucp:/usr/sbin/uucico
_taskgated:*:13:13:Task Gate Daemon:/var/empty:/usr/bin/false
_networkd:*:24:24:Network Services:/var/networkd:/usr/bin/false
```

```
new — zsh — 96x46

[anoobvalath@Anoobs-MBP new % nano fsam.txt
[anoobvalath@Anoobs-MBP new % cat fsam.txt
this is a file edited in nano
[anoobvalath@Anoobs-MBP new % rm fsam.txt
[anoobvalath@Anoobs-MBP new % ls
folder1      mix.txt      output.txt
[anoobvalath@Anoobs-MBP new % find . -name *.txt
find: output.txt: unknown primary or operator
[anoobvalath@Anoobs-MBP new % find . -name *
find: mix.txt: unknown primary or operator
[anoobvalath@Anoobs-MBP new % ls
folder1      mix.txt      output.txt
[anoobvalath@Anoobs-MBP new % find . -type d -name "f*"
./folder1
[anoobvalath@Anoobs-MBP new % find . -name output.txt -delete
[anoobvalath@Anoobs-MBP new % ls
folder1 mix.txt
[anoobvalath@Anoobs-MBP new % free
zsh: command not found: free
[anoobvalath@Anoobs-MBP new % uptime
14:43 up 13 days,  3:44, 2 users, load averages: 1.66 1.54 1.56
[anoobvalath@Anoobs-MBP new % sudo apt updatee
[Password:
The operation couldn't be completed. Unable to locate a Java Runtime.
Please visit http://www.java.com for information on installing Java.

[anoobvalath@Anoobs-MBP new % sudo apt update
The operation couldn't be completed. Unable to locate a Java Runtime.
Please visit http://www.java.com for information on installing Java.

[anoobvalath@Anoobs-MBP new % python
WARNING: Python 2.7 is not recommended.
This version is included in macOS for compatibility with legacy software.
Future versions of macOS will not include Python 2.7.
Instead, it is recommended that you transition to using 'python3' from within Terminal.

Python 2.7.16 (default, Aug 30 2021, 14:43:11)
[GCC Apple LLVM 12.0.5 (clang-1205.0.19.59.6) [+internal-os, ptrauth-is-a=deploy on darwin
Type "help", "copyright", "credits" or "license" for more information.
[>>> exit()
anoobvalath@Anoobs-MBP new %
```

```
new — zsh — 96x46
27595 drwxr-xr-x 2 root wheel 64 Jan 1 2020 cores
316 dr-xr-xr-x 3 root wheel 4473 Jan 7 10:58 dev
1152921500312764854 lrwxr-xr-x@ 1 root wheel 11 Jan 1 2020 etc -> private/etc
1152921504606781440 lrwxr-xr-x 1 root wheel 25 Jan 7 11:00 home -> /System/Volumes/Data/home
27592 drwxr-xr-x 2 root wheel 64 Jan 1 2020 opt
5823215 drwxr-xr-x 6 root wheel 192 Jan 1 2020 private
1152921500312764857 drwxr-xr-x@ 65 root wheel 2080 Jan 1 2020 sbin
1152921500312764962 lrwxr-xr-x@ 1 root wheel 11 Jan 1 2020 tmp -> private/tmp
1152921500312764963 drwxr-xr-x@ 11 root wheel 352 Jan 1 2020 usr
1152921500312799825 lrwxr-xr-x@ 1 root wheel 11 Jan 1 2020 var -> private/var
[anoobvalath@Anoobs-MBP ~ % cd
[anoobvalath@Anoobs-MBP ~ % cd new
[anoobvalath@Anoobs-MBP new % ls
[folder1 mix.txt output.txt
[anoobvalath@Anoobs-MBP new % pwd
[/Users/anoobvalath/new
[anoobvalath@Anoobs-MBP new % ls -a
[. ..
[anoobvalath@Anoobs-MBP new % ls -l
[total 16
[drwxr-xr-x 5 anoobvalath staff 160 Jan 20 14:32 folder1
[-rw-r--r-- 1 anoobvalath staff 25 Jan 20 14:29 mix.txt
[-rw-r--r-- 1 anoobvalath staff 19 Jan 20 14:28 output.txt
[anoobvalath@Anoobs-MBP new % chmod 755 mix.txt
[anoobvalath@Anoobs-MBP new % ls -l
[total 16
[drwxr-xr-x 5 anoobvalath staff 160 Jan 20 14:32 folder1
[-rwxr-xr-x 1 anoobvalath staff 25 Jan 20 14:29 mix.txt
[-rw-r--r-- 1 anoobvalath staff 19 Jan 20 14:28 output.txt
[anoobvalath@Anoobs-MBP new % ls -alh
[total 16
[drwxr-xr-x 5 anoobvalath staff 160B Jan 20 14:31 .
[drwxr-xr-x+ 20 anoobvalath staff 640B Jan 20 14:33 ..
[drwxr-xr-x 5 anoobvalath staff 160B Jan 20 14:32 folder1
[-rwxr-xr-x 1 anoobvalath staff 25B Jan 20 14:29 mix.txt
[-rw-r--r-- 1 anoobvalath staff 19B Jan 20 14:28 output.txt
[anoobvalath@Anoobs-MBP new % ls -alh | grep temp
[anoobvalath@Anoobs-MBP new % ls -alh | grep o
[total 16
[drwxr-xr-x 5 anoobvalath staff 160B Jan 20 14:31 .
[drwxr-xr-x+ 20 anoobvalath staff 640B Jan 20 14:33 ..
[drwxr-xr-x 5 anoobvalath staff 160B Jan 20 14:32 folder1
[-rwxr-xr-x 1 anoobvalath staff 25B Jan 20 14:29 mix.txt
[-rw-r--r-- 1 anoobvalath staff 19B Jan 20 14:28 output.txt
anoobvalath@Anoobs-MBP new %
```

```
folder1      hello.txt      mix.txt      output.txt
[anoobvalath@Anoobs-MBP new % mv hello.txt folder1
anoobvalath@Anoobs-MBP new % ls
folder1      mix.txt      output.txt
anoobvalath@Anoobs-MBP new % cd folder1
anoobvalath@Anoobs-MBP folder1 % ls
child      hello.txt
anoobvalath@Anoobs-MBP folder1 % cp hello.txt copy.txt
anoobvalath@Anoobs-MBP folder1 % cat copy.txt
hello
anoobvalath@Anoobs-MBP folder1 % mv hello.txt hi.txt
anoobvalath@Anoobs-MBP folder1 % ls
child      copy.txt      hi.txt
anoobvalath@Anoobs-MBP folder1 % whoami
anoobvalath
anoobvalath@Anoobs-MBP folder1 % who
anoobvalath console Jan  7 11:00
anoobvalath ttys000 Jan 20 14:24
anoobvalath@Anoobs-MBP folder1 % id
uid=501(anoobvalath) gid=20(staff) groups=20(staff),12(everyone),61(localaccounts),79(_appserverusr),80(admin),81(_appserveradm),98(_lpadmin),33(_appstore),100(_lpoperator),204(_developer),250(_analyticsusers),395(com.apple.access_ftp),398(com.apple.access_screensharing),399(com.apple.access_ssh),400(com.apple.access_remote_ae),701(com.apple.sharepoint.group.1)
[anoobvalath@Anoobs-MBP folder1 % passwd
Changing password for anoobvalath.
Old Password:
```

```
[anoobvalath@Anoobs-MBP ~ % ls
Applications Downloads Music VirtualBox
Desktop Library Pictures VirtualBox VMs
Documents Movies Public new

[anoobvalath@Anoobs-MBP ~ % cd new
[anoobvalath@Anoobs-MBP new % pwd
/Users/anoobvalath/new
[anoobvalath@Anoobs-MBP new % cd ..
[anoobvalath@Anoobs-MBP ~ % ls
Applications Downloads Music VirtualBox
Desktop Library Pictures VirtualBox VMs
Documents Movies Public new

[anoobvalath@Anoobs-MBP ~ % cd new
[anoobvalath@Anoobs-MBP new % cd usr
cd: no such file or directory: usr
[anoobvalath@Anoobs-MBP new % cd ..
[anoobvalath@Anoobs-MBP ~ % cd usr
cd: no such file or directory: usr
[anoobvalath@Anoobs-MBP ~ % ls
Applications Documents Library Music Public VirtualBox VMs
Desktop Downloads Movies Pictures VirtualBox new

[anoobvalath@Anoobs-MBP ~ % cd ..
[anoobvalath@Anoobs-MBP /Users % ls
Shared anoobvalath
[anoobvalath@Anoobs-MBP /Users % cd ..
[anoobvalath@Anoobs-MBP / %
[anoobvalath@Anoobs-MBP / % ls
Applications Users cores home sbin var
Library Volumes dev opt tmp
System bin etc private usr

[anoobvalath@Anoobs-MBP / % cd new
[anoobvalath@Anoobs-MBP new % ls
folder1 output.txt
[anoobvalath@Anoobs-MBP new % ls > output.txt
[anoobvalath@Anoobs-MBP new % cat output.txt
folder1
output.txt
[anoobvalath@Anoobs-MBP new % echo "hello" > hello.txt
[anoobvalath@Anoobs-MBP new % cat hello.txt
hello
[anoobvalath@Anoobs-MBP new % cat * > mix.txt
cat: folder1: Is a directory
[anoobvalath@Anoobs-MBP new % cat mix.txt
hello
folder1
output.txt
[anoobvalath@Anoobs-MBP new % less
Missing filename ("less --help" for help)
[anoobvalath@Anoobs-MBP new % less mix.txt
[anoobvalath@Anoobs-MBP new % ]
```

```
[anoobvalath@Anoobs-MBP new % python3
Python 3.8.2 (default, Jun  8 2021, 11:59:35)
[Clang 12.0.5 (clang-1205.0.22.11)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
[>>> var = 'something'
[>>> print(var)
something
[>>> if(var != 'something')
    File "<stdin>", line 1
        if(var != 'something')"
        ^
SyntaxError: EOL while scanning string literal
[>>> if(var != 'something'):
    File "<stdin>", line 1
        if(var != 'something'):
        ^
SyntaxError: EOL while scanning string literal
[>>> if(var != 'something'):
[...     print('no')
[... else:
[...     print('yes')
[...
yes
[>>> list = [1,2,5,7]
[>>> list[0]
1
[>>> list[2]
5
[>>> name = input("name?: ")
[name?: nipun
[>>> print(name)
nipun
[>>> def calc(no):
[...     if(no<100):
[...         print(no*no)
[...     else:
[...         print(no*3)
[...
>>> ]]
```

```
nipun@LAPTOP-1HNTD447: ~
nipun@LAPTOP-1HNTD447: $ python3
Python 3.8.10 (default, Nov 26 2021, 20:14:08)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> class product:
...     def set(self, name, price):
...         self.name = name
...         self.price = price
...     def get(self):
...         print(self.name)
...         print(self.price)
...
>>> p = product()
>>> p.set('cake', 300)
>>> p.get()
cake
300
>>> from math import *
>>> a = pi
>>> print(a)
3.141592653589793
>>> print(6**3)
6 3
>>> print(pow(6, 3))
216.0
>>> print(ceil(1340.34))
1341
>>> print(floor(1340.34))
1340
>>> pmap
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'pmap' is not defined
```

```

nipun@LAPTOP-1HNTD447:~>
>>>
nipun@LAPTOP-1HNTD447:~$ pmap

Usage:
  pmap [options] PID [PID ...]

Options:
  -x, --extended           show details
  -X                         show even more details
  -XX                        WARNING: format changes according to /proc/PID/smaps
  -c, --read-rc              show everything the kernel provides
  -C, --read-rc-from=<file>  read the rc from file
  -n, --create-rc             create new default rc
  -N, --create-rc-to=<file>   create new rc to file
                             NOTE: pid arguments are not allowed with -n, -N
  -d, --device               show the device format
  -q, --quiet                do not display header and footer
  -p, --show-path             show path in the mapping
  -A, --range=<low>[,<high>] limit results to the given range

  -h, --help                 display this help and exit
  -V, --version               output version information and exit

For more details see pmap(1).
nipun@LAPTOP-1HNTD447:~$ top
top - 16:08:26 up 53 min, 0 users, load average: 0.04, 0.11, 0.20
Tasks: 6 total, 1 running, 4 sleeping, 1 stopped, 0 zombie
%CPU(s): 0.3 us, 0.1 sy, 0.0 ni, 99.6 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 12663.7 total, 7357.6 free, 1445.1 used, 3861.0 buff/cache
MiB Swap: 4096.0 total, 4096.0 free, 0.0 used. 10550.3 avail Mem

      PID USER      PR  NI    VIRT    RES    SHR S %CPU %MEM     TIME+ COMMAND
      PID USER      PR  NI    VIRT    RES    SHR S %CPU %MEM     TIME+ COMMAND
      1 root      20   0    900    532   464 S  0.0   0.0  0:00.01 init
      8 root      20   0    908    88    20 S  0.0   0.0  0:00.00 init
      9 root      20   0    908    96    20 S  0.0   0.0  0:00.11 init
     10 nipun    20   0   9992   5116  3404 S  0.0   0.0  0:00.09 bash
10789 nipun    20   0  44728  33708 14616 T  0.0   0.3  0:00.14 python3
10793 nipun    20   0  10884   3716  3192 R  0.0   0.0  0:00.00 top

```

```
nipun@LAPTOP-1HNTD447: ~
wtmp begins Thu Jan 20 15:39:11 2022
nipun@LAPTOP-1HNTD447: $ ps
  PID TTY      TIME CMD
 10 pts/0    00:00:00 bash
10789 pts/0    00:00:00 python3
10796 pts/0    00:00:00 ps
nipun@LAPTOP-1HNTD447: $ info

nipun@LAPTOP-1HNTD447: $ info
nipun@LAPTOP-1HNTD447: $ ■
nipun@LAPTOP-1HNTD447: ~
nipun@LAPTOP-1HNTD447: $ env
SHELL=/bin/bash
WSL_DISTRO_NAME=Ubuntu-20.04
NAME=LAPTOP-1HNTD447
PWD=/home/nipun
LOGNAME=nipun
HOME=/home/nipun
LANG=C.UTF-8
WSL_INTEROP=/run/wsl/9_interop
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33:01:cd=40;33:01:or=40;31:01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01;31:*.tz=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.bz2=01;31:*.bz=01;31:*.tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.cpio=01;31:*.7z=01;31:*.rz=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35:*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.mng=01;35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob=01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ovg=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.mka=00;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:
LESSCLOSE=/usr/bin/lesspipe %s %
TERM=xterm-256color
LESSOPEN=| /usr/bin/lesspipe %
USER=nipun
SHLVL=1
WSLENV=
XDG_DATA_DIRS=/usr/local/share:/usr/share:/var/lib/snapd/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/games:/usr/lib/wsl/lib:/mnt/c/Program Files/WindowsApps/CanonicalGroupLimited.Ubuntu20.04onWindows_2004.2021.825.0_x64_79rhkp1fndgsc:/mnt/c/Program Files (x86)/Common Files/Oracle/Java/javapath:/mnt/c/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v10.1/bin:/mnt/c/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v10.1/libnvvp:/mnt/c/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v9.0/bin:/mnt/c/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v9.0/libnvvp:/mnt/c/Windows/system32:/mnt/c/Windows:/mnt/c/Windows/System32/Wbem:/mnt/c/Windows/System32/WindowsPowerShell/v1.0:/mnt/c/Win
```

```
nipun@LAPTOP-1HNTD447:~  
File: dir,      Node: Top,      This is the top of the INFO tree.  
  
This is the Info main menu (aka directory node).  
A few useful Info commands:  
  
'q' quits;  
'H' lists all Info commands;  
'h' starts the Info tutorial;  
'mTexinfo RET' visits the Texinfo manual, etc.  
  
* Menu:  
  
Basics  
* Common options: (coreutils)Common options.  
* Coreutils: (coreutils).      Core GNU (file, text, shell) utilities.  
* Date input formats: (coreutils)Date input formats.  
* Ed: (ed).                  The GNU line editor  
* File permissions: (coreutils)File permissions.  
    Access modes.  
* Finding files: (find).      Operating on files matching certain criteria.  
  
Compression  
* Gzip: (gzip).              General (de)compression of files (lzw).  
  
Editors  
* nano: (nano).              Small and friendly text editor.  
  
General Commands  
* Screen: (screen).          Full-screen window manager.  
  
GNU organization  
----Info: (dir)Top, 180 lines --Top-----  
Welcome to Info version 6.7. Type H for help, h for tutorial.
```

```
nipun@LAPTOP-1HNTD447:~$ df  
Filesystem 1K-blocks Used Available Use% Mounted on  
/dev/sde 263174212 1410920 248325136 1% /  
tmpfs 6483800 373276 6110524 6% /mnt/wsl  
/dev/sdd 263174212 2293448 247442608 1% /mnt/wsl/docker-desktop-data/isocache  
none 6483800 16 6483784 1% /mnt/wsl/docker-desktop/shared-sockets/host-services  
/dev/sdc 263174212 125920 249610136 1% /mnt/wsl/docker-desktop/docker-desktop-proxy  
/dev/loop0 341422 341422 0 100% /mnt/wsl/docker-desktop/cli-tools  
tools 498952516 402746580 96205936 81% /init  
none 6481716 0 6481716 0% /dev  
none 6483800 16 6483784 1% /run  
none 6483800 0 6483800 0% /run/lock  
none 6483800 0 6483800 0% /run/shm  
none 6483800 0 6483800 0% /run/user  
tmpfs 6483800 0 6483800 0% /sys/fs/cgroup  
drivers 498952516 402746580 96205936 81% /usr/lib/wsl/drivers  
lib 498952516 402746580 96205936 81% /usr/lib/wsl/lib  
C:\ 498952516 402746580 96205936 81% /mnt/c  
D:\ 419745144 241619696 178125448 58% /mnt/d  
nipun@LAPTOP-1HNTD447:~$ bash --version  
GNU bash, version 5.0.17(1)-release (x86_64-pc-linux-gnu)  
Copyright (C) 2019 Free Software Foundation, Inc.  
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>  
  
This is free software; you are free to change and redistribute it.  
There is NO WARRANTY, to the extent permitted by law.  
nipun@LAPTOP-1HNTD447:~$ echo $SHELL  
/bin/bash  
nipun@LAPTOP-1HNTD447:~$
```

```
nipun@LAPTOP-1HNTD447:~$ nano first.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x first.sh
nipun@LAPTOP-1HNTD447:~$ ./first.sh
Welcome to Shell scripting
first.sh
This list of directories
./first.sh: line 5: name: command not found

nipun@LAPTOP-1HNTD447:~$ chmod +x first.sh
nipun@LAPTOP-1HNTD447:~$ nano first.sh
nipun@LAPTOP-1HNTD447:~$ ./first.sh
Welcome to Shell scripting
first.sh
This list of directories
./first.sh: line 5: name: command not found

nipun@LAPTOP-1HNTD447:~$ nano first.sh
nipun@LAPTOP-1HNTD447:~$ ./first.sh
Welcome to Shell scripting
first.sh
This list of directories
new
nipun@LAPTOP-1HNTD447:~$ cat first.sh
#!/bin/bash
echo "Welcome to Shell scripting"
ls
echo "This list of directories"
name=new
echo $name
nipun@LAPTOP-1HNTD447:~$
```

```
nipun@LAPTOP-1HNTD447:~$ apt list --upgradable
Listing... Done
nipun@LAPTOP-1HNTD447:~$ nano helloscript.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x helloscript.sh
nipun@LAPTOP-1HNTD447:~$ ./helloscript.sh
The script title is ./helloscript.sh
nipun@LAPTOP-1HNTD447:~$ nano helloscript.sh
nipun@LAPTOP-1HNTD447:~$ ./helloscript.sh
The script title is ./helloscript.sh
First arg is
Second arg is
10842 is the PID of the script
nipun@LAPTOP-1HNTD447:~$ cat helloscript.sh
#!/bin/bash
echo "The script title is $0"
echo "First arg is $1"
echo "Second arg is $2"
echo "$$ is the PID of the script"

nipun@LAPTOP-1HNTD447:~$ cat favAnimal.sh
cat: favAnimal.sh: No such file or directory
nipun@LAPTOP-1HNTD447:~$ nano favAnimal.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x favAnimal.sh
nipun@LAPTOP-1HNTD447:~$ ./favAnimal.sh
Enter an animal:
cat
./favAnimal.sh: line 4: [: missing `]'
I like cat
nipun@LAPTOP-1HNTD447:~$ nano favAnimal.sh
nipun@LAPTOP-1HNTD447:~$ ./favAnimal.sh
Enter an animal:
cat
./favAnimal.sh: line 4: [: missing `]'
```

```
nipun@LAPTOP-1HNTD447:~$ nano favAnimal.sh
nipun@LAPTOP-1HNTD447:~$ ./favAnimal.sh
Enter an animal:
cat
I love cats
nipun@LAPTOP-1HNTD447:~$ ./favAnimal.sh
Enter an animal:
dogs
I like dogs
nipun@LAPTOP-1HNTD447:~$ ./favAnimal.sh
Enter an animal:
panda
I like panda
nipun@LAPTOP-1HNTD447:~$ cat favAnimal.sh
#!/bin/bash
echo "Enter an animal: "
read animal
if [ $animal == 'cat' ]
    then echo "I love cats"
    else echo "I like $animal"
fi

nipun@LAPTOP-1HNTD447:~$ nano favAnimal.sh
nipun@LAPTOP-1HNTD447:~$ ./favAnimal.sh
Enter an animal:
dog
I dont like dogs
nipun@LAPTOP-1HNTD447:~$ cat favAnimal.sh
#!/bin/bash
echo "Enter an animal: "
read animal
if [ $animal == 'cat' ]
    then echo "I love cats"

```

```
        else echo "I like $animal"
fi

nipun@LAPTOP-1HNTD447:~$ nano favAnimal.sh
nipun@LAPTOP-1HNTD447:~$ ./favAnimal.sh
Enter an animal:
dog
I dont like dogs
nipun@LAPTOP-1HNTD447:~$ cat favAnimal.sh
#!/bin/bash
echo "Enter an animal: "
read animal
if [ $animal == 'cat' ]
    then echo "I love cats"
elif [ $animal == 'dog' ]
    then echo "I dont like dogs"
    else echo "I like $animal"
fi

nipun@LAPTOP-1HNTD447:~$
```

```
nipun@LAPTOP-1HNTD447:~$ nano loop.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x loop.sh
nipun@LAPTOP-1HNTD447:~$ ./loop.sh
Enter number
4
Welcome 1 time 4
Enter number
2
Welcome 2 time 2
Enter number
4
Welcome 3 time 4
Enter number
5
Welcome 4 time 5
nipun@LAPTOP-1HNTD447:~$ cat loop.sh
#!/bin/bash

for (( c=1; c<5 ; c++ ))
do
    echo "Enter number"
    read no
    echo "Welcome $c time $no"
done
nipun@LAPTOP-1HNTD447:~$
```

```
Select nipun@LAPTOP-1HNTD447:~
nipun@LAPTOP-1HNTD447:~$ nano state.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x state.sh
nipun@LAPTOP-1HNTD447:~$ ./state.sh
./state.sh: line 3: syntax error near unexpected token `(
./state.sh: line 3: `STATES = ("Andhra Pradesh" "Kerala" "Tamil Nadu")'
nipun@LAPTOP-1HNTD447:~$ chmod +x state.sh
nipun@LAPTOP-1HNTD447:~$ nano state.sh
nipun@LAPTOP-1HNTD447:~$ ./state.sh
State Andhra Pradesh
State Kerala
State Tamil Nadu
nipun@LAPTOP-1HNTD447:~$ cat state.sh
#!/bin/bash

STATES=("Andhra Pradesh" "Kerala" "Tamil Nadu")
for state in "${STATES[@]}"
do
    echo "State $state"
done
nipun@LAPTOP-1HNTD447:~$
```

```
nipun@LAPTOP-1HNTD447:~$ nano hellofunc.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x hellofunc.sh
nipun@LAPTOP-1HNTD447:~$ ./hellofunc.sh
function with arguments
hi
hello
nipun@LAPTOP-1HNTD447:~$ ./hellofunc.sh bob tom
function with arguments
hi bob
hello tom
nipun@LAPTOP-1HNTD447:~$ cat hellofunc.sh
#!/bin/bash

hellofunc(){
    echo "function with arguments"
    echo "hi $1"
    echo "hello $2"
}
hellofunc $1 $2
nipun@LAPTOP-1HNTD447:~$ bash -x ./hellofunc.sh
+ hellofunc
+ echo 'function with arguments'
function with arguments
+ echo 'hi '
hi
+ echo 'hello '
hello
nipun@LAPTOP-1HNTD447:~$
```

```
nipun@LAPTOP-1HNTD447:~$ nano color.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x color.sh
nipun@LAPTOP-1HNTD447:~$ ./color.sh
;31mm this is red m
;33mm this is yellow m
;34mm this is blue m
default color text
nipun@LAPTOP-1HNTD447:~$ nano color.sh
nipun@LAPTOP-1HNTD447:~$ ./color.sh
m this is red m
m this is yellow m
m this is blue m
default color text
nipun@LAPTOP-1HNTD447:~$ cat color.sh
#!/bin/bash

echo -e "\e[0;31mm this is red \e[0m"
echo -e "\e[0;33mm this is yellow \e[0m"
echo -e "\e[0;34mm this is blue \e[0m"

echo "default color text"
nipun@LAPTOP-1HNTD447:~$ bash -x ./color.sh
+ echo -e '\e[0;31mm this is red \e[0m'
m this is red m
+ echo -e '\e[0;33mm this is yellow \e[0m'
m this is yellow m
+ echo -e '\e[0;34mm this is blue \e[0m'
m this is blue m
+ echo 'default color text'
default color text
nipun@LAPTOP-1HNTD447:~$
```