CHMOD CHGRP CHOWN

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-rwxrwxrwx 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

read=4 write=2 execute=1 and none=0.
for example 7 is read+write+execute

          6 is read+write

karthik@ubuntu:~/Desktop/practice$ chmod 442 test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44+

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-r--r---w- 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ chmod 777 test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-rwxrwxrwx 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ chmod 000 test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

---------- 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ chmod 777 test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-rwxrwxrwx 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ chmod u-rwx test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

----rwxrwx 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ chmod g-rwx test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-------rwx 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ chmod o-x test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-------rw- 1 karthik karthik   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ groups

karthik adm cdrom sudo dip plugdev lpadmin sambashare docker

karthik@ubuntu:~/Desktop/practice$ chgrp lpadmin test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

`-------rw- 1 karthik lpadmin   19 Jan 23 13:21 test`

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ users

karthik

karthik@ubuntu:~/Desktop/practice$ chown root test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

`-------rw- 1 root   lpadmin   19 Jan 23 13:21 test`

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

karthik@ubuntu:~/Desktop/practice$ sudo chmod a+rwx test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-rwxrwxrwx 1 root   lpadmin   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

NOW I WILL CREATE A NEW USER AND ASSIGN TO TEST FILE

karthik@ubuntu:~/Desktop/practice$ sudo useradd venkatesh

karthik@ubuntu:~/Desktop/practice$ sudo passwd venkatesh

Enter new UNIX password:

Retype new UNIX password:

passwd: password updated successfully

karthik@ubuntu:~/Desktop/practice$ sudo chown venkatesh test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik   karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik   karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik   karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik   karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik   karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik   karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik   karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik   karthik 4096 Jan 12 12:39 ram

-rwxrwxrwx 1 venkatesh lpadmin   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik   karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik   karthik 4096 Dec 14 17:34 thk

NOW I WILL CREATE A NEW GROUP AND ASSIGN TO TEST FILE

karthik@ubuntu:~$ sudo addgroup group1

Adding group `group1' (GID 1006) ...

Done.

karthik@ubuntu:~/Desktop/practice$ sudo chgrp group1 test

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik   karthik 4096 Jan 23 13:22 .

drwxr-xr-x 4 karthik   karthik 4096 Jan 23 13:20 ..

-rw-rw-r-- 1 karthik   karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik   karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik   karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik   karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik   karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik   karthik 4096 Jan 12 12:39 ram

-rwxrwxrwx 1 venkatesh group1   19 Jan 23 13:21 test

drwxrwxrwx 3 karthik   karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik   karthik 4096 Dec 14 17:34 thk

Renaming using Mv command

karthik@ubuntu:~/Desktop/practice$ mv test testing_rename

karthik@ubuntu:~/Desktop/practice$ ls -la

total 44

drwxrwxr-x 7 karthik karthik 4096 Jan 24 00:21 .

drwxr-xr-x 4 karthik karthik 4096 Jan 23 15:43 ..

-rw-rw-r-- 1 karthik karthik   47 Jan 12 12:18 kar

drwxrwxr-x 3 karthik karthik 4096 Jan 18 12:20 neww

drwxrwxr-x 3 karthik karthik 4096 Jan 17 13:27 nodejsapp

-rw-rw-r-- 1 karthik karthik 692 Jan 12 12:27 numbers

-rw-rw-r-- 1 karthik karthik 754 Jan 12 12:29 numbers.save

drwxrwxr-x 2 karthik karthik 4096 Jan 12 12:39 ram

-rwxrwxrwx 1 karthik group1   19 Jan 23 13:21 testing_rename

drwxrwxrwx 3 karthik karthik 4096 Dec 14 12:40 thik

drwxrwxr-x 3 karthik karthik 4096 Dec 14 17:34 thk

"rename" renames the filenames supplied according to the rule specifie as the first argument. The perlexpr argument is a Perl expression which is expected to modify the $_ string in Perl for at least some of the filenames specified. If a given filename is not modified by th expression, it will not be renamed. If no filenames are given on the command line, filenames will be read via standard input.

karthik@ubuntu:~/Desktop/rename$ ls -la

total 8

drwxrwxr-x 2 karthik karthik 4096 Jan 24 01:25 .

drwxr-xr-x 5 karthik karthik 4096 Jan 24 01:20 ..

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 DEEPU_A

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 KARTHIK_REDDY

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 PHANI

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 VEN

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 VENKATESH

karthik@ubuntu:~/Desktop/rename$ rename 'y/A-Z/a-z'/ *

// To translate uppercase names to lowercase

karthik@ubuntu:~/Desktop/rename$ ls -la

total 8

drwxrwxr-x 2 karthik karthik 4096 Jan 24 01:27 .

drwxr-xr-x 5 karthik karthik 4096 Jan 24 01:20 ..

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 deepu_a

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 karthik_reddy

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 phani

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 ven

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 venkatesh

karthik@ubuntu:~/Desktop/rename$ rename 's/_//' *

// To remove spaces

karthik@ubuntu:~/Desktop/rename$ ls -la

total 8

drwxrwxr-x 2 karthik karthik 4096 Jan 24 01:28 .

drwxr-xr-x 5 karthik karthik 4096 Jan 24 01:20 ..

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 **deepua**

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 **karthikreddy**

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 phani

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 ven

-rw-rw-r-- 1 karthik karthik   0 Jan 24 01:20 venkatesh

CURL :

- Curl support more protocol FTP, FTPS, HTTP, HTTPS, SCP, SFTP, TFTP, TELNET, DICT, LDAP, LDAPS, FILE, POP3, IMAP, SMTP, RTMP and RTSP
- Curl support more SSL libraries
- Curl supports more HTTP authentication methods.

WGET :

- While wget supports HTTP, HTTPS and FTP
- Wget supports only GnuTLS or OpenSSL for SSL/TLS support

- wget supports only Basic auth as the only auth type over HTTP proxy
- Wget is command line tool only, it has no library.

So, CURL IS MORE USEFULL.

**curl -u "username":"password" -d status="Hello..posting in twitter" \
http://twitter.com/statuses/update.xml**
we can also login to specific website using curl –u and by providing user credentials.
This above command is used post status in twitter via console.

karthik@ubuntu:~/Desktop$ **wget 127.0.0.1**

//This command is used to download the specific website page to my computer.

--2017-01-24 13:28:06-- http://127.0.0.1/

Connecting to 127.0.0.1:80... connected.

HTTP request sent, awaiting response... 200 OK

Length: 11321 (11K) [text/html]

Saving to: 'index.html'

index.html   100%[===================>] 11.06K --.-KB/s   in 0s

2017-01-24 13:28:06 (80.7 MB/s) - 'index.html' saved [11321/11321]

If we give karthik@ubuntu:~/Desktop$ **curl 127.0.0.1** ,
This will display the source code of the website

To download the file using curl we have to use,
karthik@ubuntu:~/Desktop`$ curl -o test.html 127.0.0.1`

This will download source code of 127.0.0.1 with test.html name.

We can also fetch multiple files at time,

karthik@ubuntu:~/Desktop`$ curl -o URL1 -o URL2`

To download Files from FTP server,

karthik@ubuntu:~/Desktop $ `curl -u ftpuser:ftppass -O ftp://ftp_server/public_html/xss.php`

.BASHRC AND .BASH_PROFILE

The purpose of a .bashrc and .bash_profile are same, is to provide a place where you can set up variables, functions and aliases.

.bash_profile is executed for login shells, while .bashrc is executed for interactive non-login shells.

When you login (type username and password) via console, either sitting at the machine, or remotely via ssh: .bash_profile is executed to configure your shell before the initial command prompt.

But, if you've already logged into your machine and open a new terminal window then .bashrc is executed before the window command prompt. .bashrc is also run when you start a new bash instance by typing /bin/bash in a terminal.

If we give below code in .bashrc file,
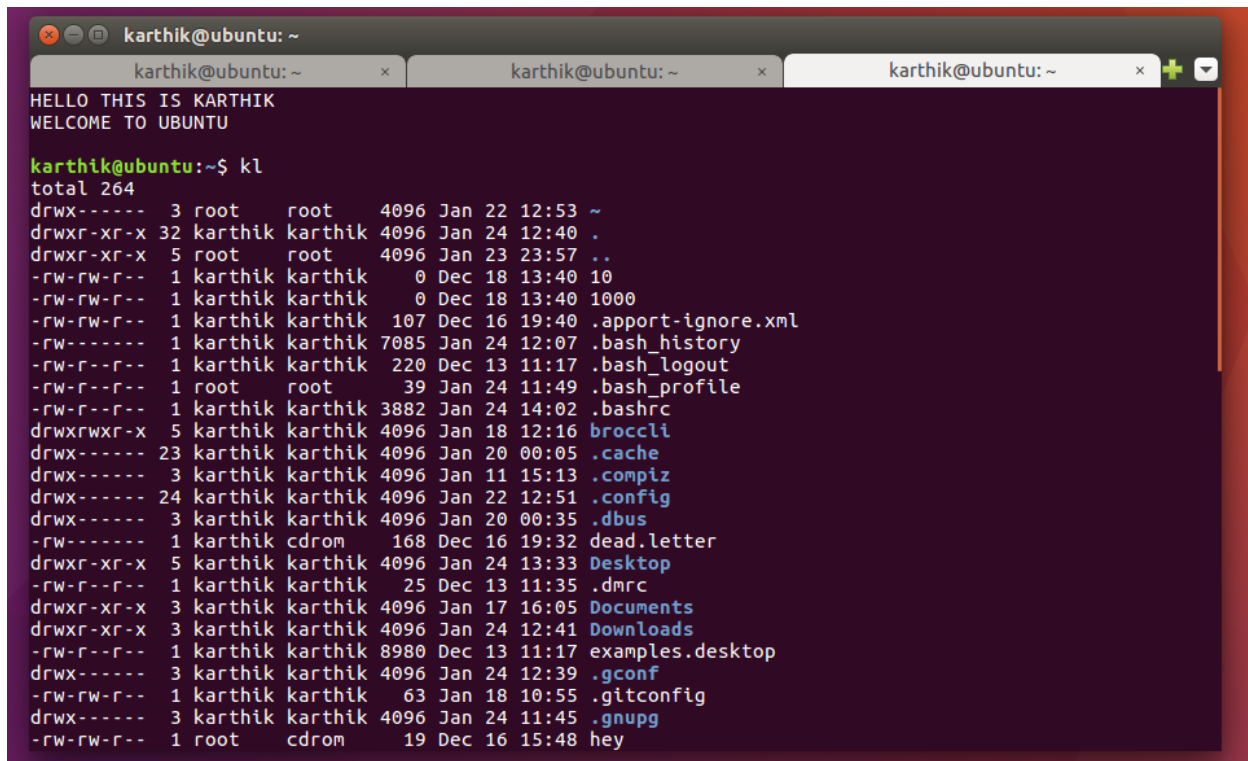
Echo "Welcome to Ubuntu". (please check result in below image)
We can also create our own commands like,

alias la='ls –a'

alias kl='ls –al' (please check result in below screenshot)

like this we can create our own commands.

We can also call .bash_profile from .bashrc file by writing this below code in .bashrc file,

If[-f /home/Karthik/.bash_profile];

./home/karthik..bash_profile

fi

So if we open new terminal the both files will execute at a single time.

DIFFERENT WAYS TO EXECUTE SHELL SCRIPT

. shellscript   #using the . (dot)

Example :-

karthik@ubuntu:~/Desktop$ `. shell.sh`

source shellscript   #using the `source` command

Example :-

 karthik@ubuntu:~/Desktop$ `source shell.sh`

/bin/sh /path/to/shellscript   #by calling the interpreter and passing the path

Example:-

karthik@ubuntu:~/Desktop$ `bash shell.sh`

karthik@ubuntu:~/Desktop$ `sh shell.sh`