## DTL - Assignment: Bash Scripting

Name – Tejas Shivaji Mulange MIS – 112103090 Division – 2 Batch – S1

- 1. Making new file and entering text into it
- 2. Making the file executable
- 3. Listing all the files in directory
- 4. Executing the file
- 5. Adding multiple lines to a file
- 6. Changing permission of the file created
- 7. Listing all the files in directory.

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ mkdir dtlAssiqn2
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd dtlAssign2
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ echo 'echo Hello world!'>hello_world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ chmod 755 hello_world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ ls
hello_world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ bash hello_world.sh
Hello world!
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ cat <<ALLDONE> hello world multiline.sh
 echo Good evening.
 echo I am Tejas Mulange.
> echo This is assignment of Shell Scripting.
> ALLDONE
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ chmod 755 hello_world_multiline.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ ls
hello_world_multiline.sh hello_world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2$ bash hello_world_multiline.sh
Good evening.
I am Tejas Mulange.
This is assignment of Shell Scripting.
```

- 1. Opening Downloads directory
- 2. Creating a new file with current timestamp
- 3. Opening the file
- 4. Changing permissions
- 5. Listing the files in the directory
- 6. Executing the file

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2$ mkdir DTL
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2$ cd DTL
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2$ cd DTL
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ touch hello-world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ touch hello-world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ nano hello-world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ chmod +x hello-world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ chmod +x hello-world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ chmod +x hello-world.sh
I am excited to perform assignment
```

```
GNU nano 6.2

# !/bln/bash -xv
# This is assignment of shell scripting.
echo "I am excited to perform assignment"
```

# special parameters:

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ nano file1.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/Dtejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ chmod 755 file1.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ ls
file1.sh hello-world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ bash file1.sh {A..Z}
T E J A S
```

```
GNU nano 6.2 file1.sh
## ! /bin/bash -xv
echo ${20} ${5} ${10} ${1} ${19}
```

## Exploring all special parameters:

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-X3400PH:-/dtlAssign2/DTL$ nano file2.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ chmod 755 file2.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ ls
file1.sh file2.sh hello-world.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ bash file2.sh {A..Z}

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Represents all arguments as single string

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Represents all arguments as an array rather than a string

26 Total number of positional arguments

hB Current flag position

11130 PID of the shell

PID of the last executed background command

file2.sh Name of the shell or shell script
echo Final argument of the last executed foreground command

0 Represents exit status of the last executed foreground command
```

# **Bracket Expansion:**

```
tejasmulange64@tejasmulange64-Vtvobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAsstgn2/DTL$ echo a{b,c,d}e
abe ace ade
tejasmulange64@tejasmulange64-Vtvobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAsstgn2/DTL$ echo {A..Z}
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

tejasmulange64@tejasmulange64-Vtvobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAsstgn2/DTL$ mkdir z{1..10}
tejasmulange64@tejasmulange64-Vtvobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAsstgn2/DTL$ tls
file1.sh file2.sh hello-world.sh z1 z10 z2 z3 z4 z5 z6 z7 z8 z9
tejasmulange64@tejasmulange64-Vtvobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAsstgn2/DTL$ echo $BASH
/usr/bin/bash
```

# Using variables:

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ nano variable.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ chmod 755 variable.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ ./variable.sh
My name is Tejas Mulange.
```

```
GNU nano 6.2

#! /bin/bash

name="Tejas Mulange"
echo My name is ${name}.
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ nano bestfriends.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ chmod 755 bestfriends.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ ./bestfriends.sh
My best friends are Shubham, Rana and Sanchit.
```

```
GNU nano 6.2 bestfriends.sh *
#! /bin/bash

friend1=Shubham
friend2=Rana
friend3=Sanchit
echo My best friends are ${friend1}, ${friend2} and ${friend3}.
```

## Arithmetic Expansion:

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ nano arithmetic.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ chmod 755 arithmetic.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ ./arithmetic.sh
x=35 and y=25
x+y = 60
60
60
61
-1
```

## command Substitution:

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ file arithmetic.sh
arithmetic.sh: Bourne-Again shell script, ASCII text executable
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$
```

```
GNU nano 6.2

#! /bin/bash

greeting="Hello, Welcome"
user=$(whoani)
date=$(date +%F)

echo "$greeting $users! Today is $date"
echo "Your bash shell version is: $BASH_VERSION.!"
```

```
tejasmulange640tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ nano greetings.sh
tejasmulange640tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ chmod 755 greetings.sh
tejasmulange640tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ ./greetings.sh
Hello, Welcome ! Today is 2023-02-07
Your bash shell version is: 5.1.16(1)-release.!
tejasmulange640tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTI $ x=23
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTI $ y=35
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ echo $x
23
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ echo $y
35
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ echo $[$x + $y]
58
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dtlAssign2/DTL$ |
```

# Creating Backup:

```
GNU nano 6.2

#! /bin/bash
# This bash script is used to backup a user's home directory to /test/

user=$(whoami)
input=/home/$(user)
output=/tmp/$(user)_home_$(date +%Y-%m-%d_%H%M%S).tar.gz

tar -cvf $output $input
echo "$input backup is complete! Details of the backup are:"
ls -l $output
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ nano file3.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ chmod 755 file3.sh
tejasmulange64@tejasmulange64/Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ ./file3.sh
tar: Removing leading '/' from member names
/home/tejasmulange64/dsa.py/
/home/tejasmulange64/dsa.py/31.c
/home/tejasmulange64/dsa.py/32.py
/home/tejasmulange64/dsa.py/32.py
/home/tejasmulange64/dsa.py/01.c
/home/tejasmulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/jsamulange64/lsmux CommanDs/fileatie1
/home/tejasmulange64/LINUX_COMMANDS/filemerge.txt
/home/tejasmulange64/LINUX_COMMANDS/a.py
/home/tejasmulange64/LINUX_COMMANDS/a.py
/home/tejasmulange64/LINUX_COMMANDS/file3.txt
/home/tejasmulange64/LINUX_COMMANDS/file3.txt
/home/tejasmulange64/LINUX_COMMANDS/file4.txt
/home/tejasmulange64/LINUX_COMMANDS/file4.txt
/home/tejasmulange64/LINUX_COMMANDS/file4.txt
/home/tejasmulange64/LINUX_COMMANDS/file4.txt
/home/tejasmulange64/LINUX_COMMANDS/file4.txt
/home/tejasmulange64/LINUX_COMMANDS/file4.txt
```

```
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/87/{71a16338-0ab8-494f-962d-88815a948b57}.final
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/106/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/106/{b3a9a82c-254b-42ca-b159-1
aaf0825806a}.final
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/157/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/153/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/153/{1e20eb7b-2901-4041-810c-6}
c1f68c3c899}.final
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/83/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/83/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/83/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/198/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/198/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/198/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/198/
/home/tejasmulange64/snap/firefox/common/.mozilla/firefox/5vs287x2.default/storage/default/https+++www.youtube.com/cache/morgue/198/
/home/tejasmulange64/snap/firefox/common/.mozilla/fir
```

#### **Environment:**

```
GNOME_TERMINAL_SCREEN=/org/gnome/Terminal/screen/6c4f859d_afed_4590_802a_1346273f08ae
GNOME_SETUP_DISPLAY=:1
LESSCLOSE=/usr/bin/lesspipe %s %s
XDG_SESSION_CLASS=user
TERM=xtern=256color
LESSOPEN=| /usr/bin/lesspipe %s
USER=tejasmulange64
GNOME_TERMINAL_SERVICE=:1.133
DISPLAY=:0
SHLVL=1
OT_IM_MODULE=ibus
XDG_RUNTIME_DIR=/run/user/1000
XDG_DATA_DIRS=/usr/share/ubuntu:/usr/local/share/:/usr/share/:/var/lib/snapd/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin
GDMSESSION_BUS_ADDRESS=unix:path=/run/user/1000/bus
_=/usr/bin/env
UDPMUD=/bnowe/tejasmulange64/dtlAssign2
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssion2/DTL$ cat /etc/environment
PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/usr/games:/usr/local/games:/snap/bin"
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$
```

## Input Output Redirection:

```
tejasmulange64@tejasmulange64/.bashrc: Permission dented
tejasmulange64().bashrc: Peb 7 20:58 foobar
tejasmulange64().bashrc: Permission dented
tejasmulange64().bashrc: Peb 7 20:58 foobar
tejasmulange64().bash
```

#### **Functions:**

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlassign2/DTL$ function status { date; uptime; who | grep $USER; }
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlassign2/DTL$ status
Tuesday 07 February 2023 09:08:33 PM IST
21:08:33 up 3:57, 1 user, load average: 0.17, 0.11, 0.12
tejasmulange64 tty2 2023-02-07 22:42 (tty2)
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlassign2/DTL$ my_func() { echo "Hello I am function"; echo "Bye!"; }
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlassign2/DTL$ my_func
Hello I am function
Bye!
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlassign2/DTL$ bash --debugger
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlassign2/DTL$ declare -F my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ declare -F my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ unset my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ unset my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ unset my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ unset my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ my_func
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH:-/dtlassign2/DTL$ my_func
```

# Numeric and String operation:

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ a=6
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ b=8
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ cas -lt $b ]
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $?
0
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ cho $?
1
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ cho $?
1
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ cho $?
1
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ cho $?
1
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ str1="apples"
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ str2="oranges"
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ str2="oranges"
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ str2="oranges"
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ str2="oranges"
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $?

1
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $?
```

## **Conditional Statement:**

```
GNU nano 6.2

#! /bin/bash

a=15

if ((a==25))
then echo YES;
else
echo NO;
fil
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ nano file4.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ chmod 755 file4.sh
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ ./file4.sh
NO
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$
```

# Arithmetic Expression:

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $(( 24+16))

tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $(( 50-35))

15
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $(( 12*5 ))

60
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $(( 500/20))

25
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $(( $0.00))

125
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ echo $(( $x * $y ))

125
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24+6

129
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 + 6

180
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

181
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

182
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

183
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

184
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

185
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

186
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

186
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

187
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

187
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

188
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:-/dtlAssign2/DTL$ expr 24 - 6

189
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH-K3400PH-K3400PH-K3400PH-K3400PH-K340
```