

```
#!/bin/bash
function add()
{
j=$1
k=$2
(( l = $a + b ))
echo "sum is:$l"
}
a=10
b=20
add $a $b
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ chmod +x add.sh
[mca@localhost Desktop]$ ./add.sh
sum is:30
[mca@localhost Desktop]$
```

Activities Terminal May 10 06:41

Open count.sh ~/Desktop Save

add.sh function.sh fileoperation.sh count.sh

```
#!/bin/bash
echo "enter the file name"
read file
c=`cat $file | wc -c`
w=`cat $file | wc -w`
l=`grep -c "." $file`
echo "no: of characters in $file is $c"
echo "no: of words in $file is $w"
echo "no: of lines in $file is $l"
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ chmod +x count.sh
[mca@localhost Desktop]$ ./count.sh
enter the file name
fileoperation.sh
no: of characters in fileoperation.sh is 859
no: of words in fileoperation.sh is 158
no: of lines in fileoperation.sh is 50
[mca@localhost Desktop]$
```

ActivitiesTerminalMay 10 06:47

Openfactorial.sh~/DesktopSave

add.shfunction.shfileoperation.shcount.shfactorial.sh

```
#!/bin/bash
factorial()
{
local=$1
if((local<=2)); then
echo $local
else
f=$((local - 1))
f=$(factorial $f)
f=$((f*local))
echo $f
fi
}
read -p "Enter the number:" n
if((n==0)); then
echo 1
else
factorial $n
fi
```

mca@localhost:~/Desktop

```
File Edit View Search Terminal Help
[mca@localhost Desktop]$ chmod +x factorial.sh
[mca@localhost Desktop]$ ./factorial.sh
Enter the number:3
6
[mca@localhost Desktop]$
```

shTab Width: 8Ln 1, Col 12INS

```
Activities Terminal May 10 06:30
fileoperation.sh ~/Desktop Save
add.sh function.sh fileoperation.sh

fi
if [ -w $file ]
then
echo "File has write permission"
else
echo "File does not have write permission"
fi
if [ -x $file ]
then
echo "File has execute permission"
else
echo "File does not have execute permission"
fi
if [ -f $file ]
then
echo "File is an ordinary file"
else
echo "This is special file"
fi
if [ -d $file ]
then
echo "File is a directory"
else
echo "This is not a directory"
fi
if [ -s $file ]
then
echo "File size is not zero"
else
echo "File size is zero"

[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ chmod +x fileoperation.sh
[mca@localhost Desktop]$ ./fileoperation.sh
File is not a block special file
File does not have read access
File does not have write permission
File does not have execute permission
This is special file
This is not a directory
File size is zero
File does not exist
[mca@localhost Desktop]$
```

sh Tab Width: 8 Ln 36, Col 21 INS

ActivitiesTerminalMay 10 06:22

Openfunction.sh~/DesktopSave

add.shfunction.sh

```
#!/bin/bash
function add()
{
j=$1
k=$2
(( l = $a + b ))
echo "sum is:$l"
}
function substract()
{
j=$1
k=$2
(( l = $a - $b ))
echo "Difference is:$l"
}
function multiply()
{
j=$1
k=$2
(( l = $a * $b ))
echo "product is:$l"
}
function divide()
{
j=$1
k=$2
(( l = $a / $b ))
echo "quotient is:$l"
}
a=10
b=20
add $a $b
substract $a $b
multiply $a $b
divide $a $b
```

mca@localhost:~/Desktop

File Edit View Search Terminal Help

```
[mca@localhost Desktop]$ chmod +x function.sh
[mca@localhost Desktop]$ ./function.sh
sum is:30
Difference is:-10
product is:200
quotient is:0
[mca@localhost Desktop]$
```

sh Tab Width: 8 Ln 14, Col 7 INS