

```
#!/bin/bash
function add()
{
j=$1
k=$2
(( l = $1 + $2 ))
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 fnadd.sh
[mca@localhost Desktop]$ ./fnadd.sh
sum is 30
[mca@localhost Desktop]$
```

Activities Terminal May 10 06:04

Open

function multiply()
{
j=\$1
k=\$2
((l = \$1 * \$2))
echo "product is \$l"
}
a=10
b=101
multiply \$a \$b

mca@localhost:~/Desktop

File Edit View Search Terminal Help

[mca@localhost ~]\$ cd Desktop/
[mca@localhost Desktop]\$ chmod +x fnadd.sh
[mca@localhost Desktop]\$./fnadd.sh
product is 1010
[mca@localhost Desktop]\$

Save

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```
#!/bin/bash
function difference()
{
j=$1
k=$2
(( l = $1 - $2 ))
echo "difference is $l"
}
a=10
b=100
difference $a $b
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ chmod +x fnadd.sh
[mca@localhost Desktop]$ ./fnadd.sh
difference is -90
[mca@localhost Desktop]$
```

```
#!/bin/bash
function division()
{
j=$1
k=$2
(( l = $1 / $2 ))
echo "quotient is $l"
}
a=50
b=10
division $a $b
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ chmod +x fnadd.sh
[mca@localhost Desktop]$ ./fnadd.sh
quotient is 5
[mca@localhost Desktop]$
```

ActivitiesTerminalMay 10 06:24

Open

```
#!/bin/sh
file="/var/www/tutorialspoint/unix/test.sh"
if [ -r $file ]
then
    echo "File has read access"
else
    echo "File does not have read access"
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 sepcial file"
fi
if [ -d $file ]
then
    echo "File is a directory"
else
    echo "This is not a directory"
```

mca@localhost:~/Desktop

File Edit View Search Terminal Help

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

sh Tab Width: 8 Ln 58, Col 37 INS

```
Activities Terminal May 10 06:24
Open
if [ -f $file ]
then
    echo "File is an ordinary file"
else
    echo "This is sepcial 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"
fi

if [ -e $file ]
then
    echo "File exists"
else
    echo "File does not exist"
fi

if [ -b $file ]
then
    echo "File is a block special"
else
    echo "File is not a block special"
fi

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

sh Tab Width: 8 Ln 58, Col 37 INS

```
#!/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 cwl.sh
[mca@localhost Desktop]$ ./cwl.sh
Enter the file name
file.sh
no.of characters in file.sh is 852
no.of words in file.sh is 156
no.of lines in file.sh is 51
[mca@localhost Desktop]$
```

```
Activities Terminal May 10 06:56
Open
#l/bin/bash
#Recursive factorial function
factorial()
{
    local=$1
    if((local<=2)); then
        echo $local
    else
        f=$((local -1))
        #Recursive call
        f=$(factorial $f)
        f=$((f*local))
        echo $f
    fi
}
#main script
read -p "Enter the number:" n
if((n==0)); then
    echo 1
else
    #calling factorial function
    factorial $n
fi
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ chmod +x fnfact.sh
[mca@localhost Desktop]$ ./fnfact.sh
Enter the number:6
720
[mca@localhost Desktop]$
```

```
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```