Open ▾ | function.sh
                ~/Desktop/Asna   Save   ≡

```bash
#!/bin/bash
function add()
{
j=$1
k=$2
(( l = $a + $b ))
echo "Sum is:$l"
}
function subtract()
{
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=50
b=20
add $a $b
subtract $a $b
multiply $a $b
divide $a $b
```

mca@localhost:~/Desktop/Asna   ×

File   Edit   View   Search   Terminal   Help

```
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ cd Asna/
[mca@localhost Asna]$ chmod +x function.sh
[mca@localhost Asna]$ ./function.sh
Sum is:70
Difference is:30
Product is:1000
Quotient is:2
[mca@localhost Asna]$
```

sh ▾   Tab Width: 8 ▾   Ln 16, Col 4   ▾

Open ▾   ⊞   **fileoperator.sh**   Save   ≡   ×
                                    ~/Desktop/Asna

function.sh   fileoperator.sh

```sh
#!/bin/sh
file="/var/www/tutorialspoint/unix/test.sh"
if [ -b $file ]
then
    echo "File is a block special file"
else
    echo "File is not a block special file"
fi
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"
```

mca@localhost:~/Desktop/Asna   ×

File Edit View Search Terminal Help

```
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ cd Asna/
[mca@localhost Asna]$ chmod +x fileoperator.sh
[mca@localhost Asna]$ ./fileoperator.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 sepcial file
This is not a directory
File size is zero
File does not exist
[mca@localhost Asna]$
```

sh ▾   Tab Width: 8 ▾   Ln 9, Col 1   ▾   INS

Open ▾ | count.sh   Save   ≡   ✕
~/Desktop/Asna

| function.sh | fileoperator.sh | count.sh |

```bash
#!/bin/bash
echo "Enter the file name:"
read file
c=`cat $file | wc -c`
w=`cat $file | wc -w`
l=`grep -c "." $file`
echo "Number of characters in $file is $c"
echo "Number of words in $file is $w"
echo "Number of lines in $file is $l"
```

mca@localhost:~/Desktop/Asna   ✕

File   Edit   View   Search   Terminal   Help

```
[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ cd Asna/
[mca@localhost Asna]$ chmod +x count.sh
[mca@localhost Asna]$ ./count.sh
Enter the file name:
function.sh
Number of characters in function.sh is 361
Number of words in function.sh is 79
Number of lines in function.sh is 35
[mca@localhost Asna]$
```

sh ▾   Tab Width: 8 ▾   Ln 9, Col 37   ▾   INS

```bash
#!/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
```

Open ▾   ⊞   factorial.sh   Save   ≡   ✕
                                        ~/Desktop/Asna

function.sh   fileoperator.sh   count.sh   factorial.sh

```
mca@localhost:~/Desktop/Asna                                    ✕

File  Edit  View  Search  Terminal  Help

[mca@localhost ~]$ cd Desktop/
[mca@localhost Desktop]$ cd Asna/
[mca@localhost Asna]$ chmod +x factorial.sh
[mca@localhost Asna]$ ./factorial.sh
Enter the number:1
1
[mca@localhost Asna]$ ./factorial.sh
Enter the number:2
2
[mca@localhost Asna]$ ./factorial.sh
Enter the number:5
120
[mca@localhost Asna]$ ./factorial.sh
Enter the number:25
7034535277573963776
[mca@localhost Asna]$ ./factorial.sh
Enter the number:10
3628800
[mca@localhost Asna]$
```

sh ▾   Tab Width: 8 ▾   Ln 18, Col 1   ▾   INS