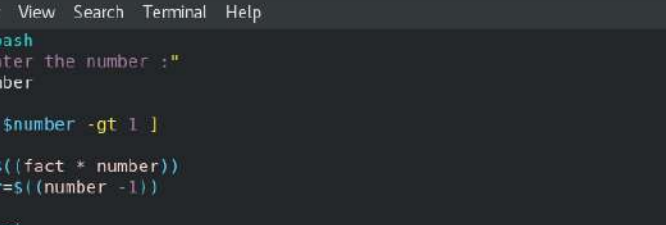


Q Type to search...

```
mca@localhost:~  
File Edit View Search Terminal Help  
#!/bin/bash  
echo "Enter Two numbers :"  
read a  
read b  
echo "Enter Choice :"  
echo "1.Addition"  
echo "2.Subtraction"  
echo "3.Multiplication"  
echo "4.Division"  
read ch  
case $ch in  
1)echo "sum $(( a + b ))";;  
2)echo "subtraction $((a - b ))";;  
3)echo "multiplication $((a * b ))";;  
4)echo "division $((a / b)) ";;  
*)echo "enter valid operation"  
esac  
  
"program1.sh" 18L, 350C 18,0-1 All
```



The screenshot shows a terminal window with a dark background. The title bar at the top reads "mca@localhost:~". The menu bar includes "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows a script for calculating a factorial:

```
#!/bin/bash
echo "Enter the number : "
read number
fact=1
while [ $number -gt 1 ]
do
    fact=$((fact * number))
    number=$((number - 1))
done
echo $fact
```

At the bottom of the terminal, the command prompt shows the file "factorial.sh" with line 11 and column 15 highlighted.

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



```
mca@localhost:~  
File Edit View Search Terminal Help  
[mca@localhost ~]$ vim forfact.sh  
[mca@localhost ~]$ chmod +x forfact.sh  
[mca@localhost ~]$ ./forfact.sh  
Enter the number  
5  
120  
[mca@localhost ~]$
```

```
mca@localhost:~  
File Edit View Search Terminal Help  
#!/bin/bash  
echo "Enter Two numbers :"  
read a  
read b  
echo "Enter Choice :"  
echo "1.Addition"  
echo "2.Subtraction"  
echo "3.Multiplication"  
echo "4.Division"  
read ch  
case $ch in  
    1) echo "sum `${a} + ${b}`";;  
    2) echo "subtraction `${a} - ${b}`";;  
    3) echo "multiplication `${a} * ${b}`";;  
    4) echo "division `${a} / ${b}`";;  
    *) echo "enter valid operation"  
esac
```

"program1.sh" 18L, 350C 18,0-1 All

```
mca@localhost:~  
File Edit View Search Terminal Help  
[mca@localhost ~]$ vim program1.sh  
[mca@localhost ~]$ chmod +x program1.sh  
[mca@localhost ~]$ ./program1.sh  
Enter Two numbers :  
2  
3  
Enter Choice :  
1.Addition  
2.Subtraction  
3.Multiplication  
4.Division  
1  
sum 5  
[mca@localhost ~]$
```

```

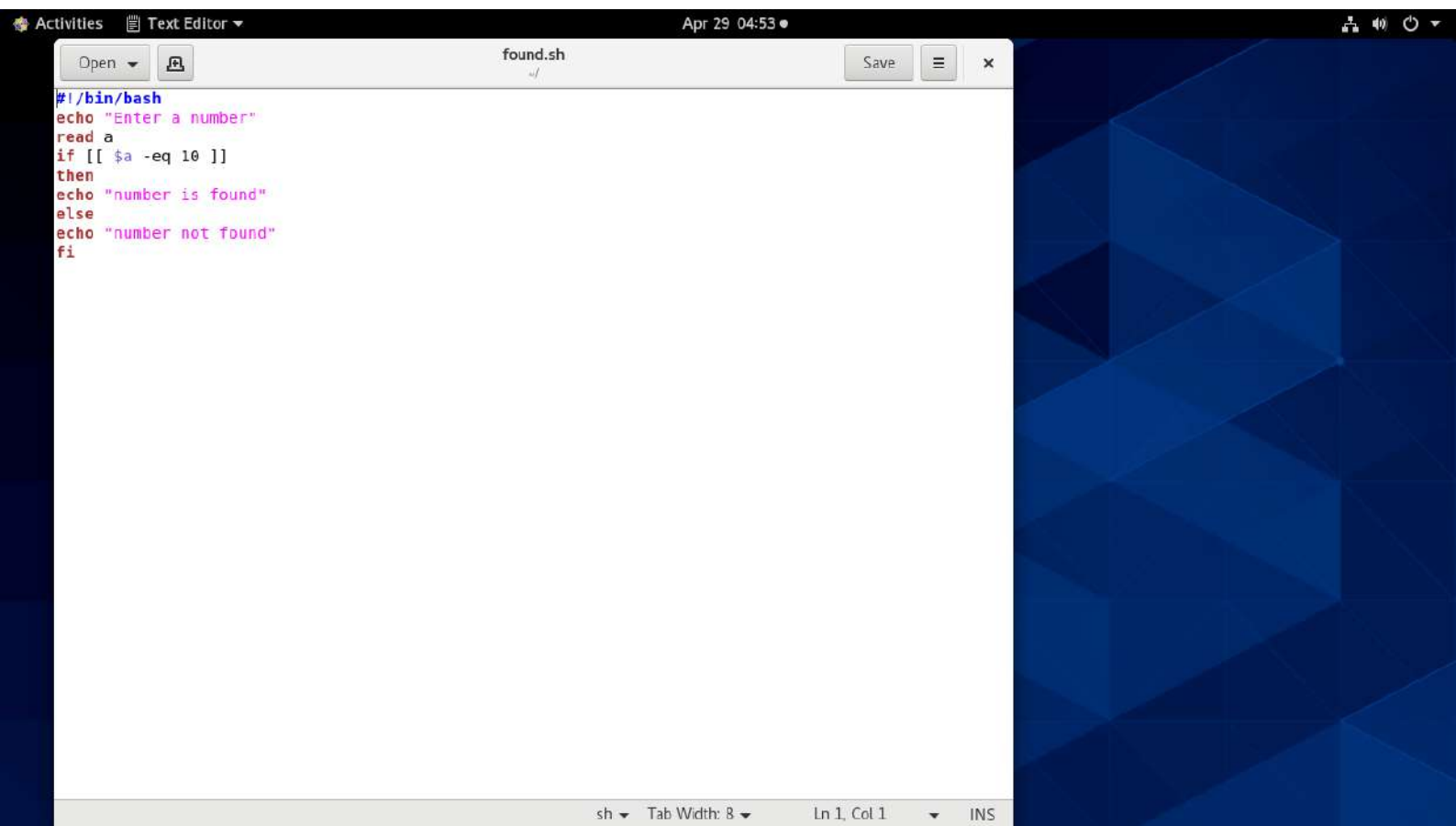
#!/bin/bash
echo "Enter number of rows : "
read rows
coef=1
for((i=0;i<rows;i++))
do
    for((space=1;space<=rows-i; space++))
    do
        echo -n " "
    done
    for((j=0;j<=i;j++))
    do
        if [ $j -eq 0 -o $i -eq 0 ]
        then
            coef=1;
        else
            coef=$((coef*(i-j+1)/j))
        fi
        echo -n $coef " "
    done
    echo
done

```



```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd desktop
bash: cd: desktop: No such file or directory
[mca@localhost ~]$ cd Desktop
[mca@localhost Desktop]$ chmod +x p.sh
[mca@localhost Desktop]$ ./p.sh
Enter number of rows :
5
      1
    1 1
  1 2 1
1 3 3 1
1 4 6 4 1
[mca@localhost Desktop]$
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop
[mca@localhost Desktop]$ chmod +x found.sh
[mca@localhost Desktop]$ ./found.sh
Enter a number
5
number not found
[mca@localhost Desktop]$
```



```
#!/bin/bash
echo "Enter two numbers"
read a
read b
if [[ $a -gt $b ]]
then
echo "a is greater than b"
else
echo "b is greater than a"
fi
```

mca@localhost:~/Desktop

File Edit View Search Terminal Help

[mca@localhost ~]\$ cd Desktop

[mca@localhost Desktop]\$ chmod +x gt2.sh

[mca@localhost Desktop]\$./gt2.sh

Enter two numbers

4

7

b is greater than a

[mca@localhost Desktop]\$

```
#!/bin/bash
echo "Enter three numbers"
read a
read b
read c
if [ $a -gt $b -a $a -gt $c ]
then
echo "a is greater than b and c"
elif [ $b -gt $a -a $b -gt $c ]
then
echo "b is greater than a and c"
else
echo "c is greater than a and b"
fi
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop
[mca@localhost Desktop]$ chmod +x gt3.sh
[mca@localhost Desktop]$ ./gt3.sh
Enter three numbers
8
6
4
a is greater than b and c
[mca@localhost Desktop]$
```

```
#!/bin/bash
echo "Enter number:"
read n
sd=0
sum=0
while [ $n -gt 0 ]
do
sd=$(( $n % 10 ))
n=$(( $n / 10 ))
sum=$(( $sum + $sd ))
done
echo "sum of all digit is $sum"
```



```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop
[mca@localhost Desktop]$ chmod +x digitsum.sh
[mca@localhost Desktop]$ ./digitsum.sh
Enter number:
15678
sum of all digit is 27
[mca@localhost Desktop]$
```

```
#!/bin/bash
echo "Enter a number : "
read n
a=0
b=1
echo "The fibonacci series is : "
for (( i=0; i<n; i++ ))
do
echo "$a"
fn=$(( a + b ))
a=$b
b=$fn
done
```

```
mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost ~]$ cd Desktop
[mca@localhost Desktop]$ chmod +x fib.sh
[mca@localhost Desktop]$ ./fib.sh
Enter a number :
5
The fibonacci series is :
0
1
1
2
3
[mca@localhost Desktop]$
```