

sumukh_g@Sumukh: ~

GNU nano 6.2function2.sh

#!/bin/bash

function f2()
{
 sum=\$((\$1 + \$2))
 echo "The sum is \$sum"

 mult=\$((\$3 * \$4))
 echo "The multiplication is \$mult"
}
a=10
b=20
c=30
d=40

f2 \$a \$b \$c \$d

Read 16 lines

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location	M-U Undo	M-A Set Mark	M-T To Bracket	M-Q Previous	^B Back	^L Prev Word
^X Exit	^R Read File	^I Replace	^U Paste	^J Justify	^_ Go To Line	M-E Redo	M-6 Copy	^O Where Was	M-W Next	^F Forward	^P Next Word

sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano function2.sh

sumukh_g@Sumukh:~\$./function2.sh

The sum is 30

The multiplication is 1200

sumukh_g@Sumukh:~\$

sumukh_g@Sumukh: ~

GNU nano 6.2function1.sh

```
#!/bin/bash

function f1
{
    echo "Welcome to function 1"
}

f1
```

Read 8 lines

^G Help

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^W Where Is

^_ Replace

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^T Execute

^J Justify

^C Location

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M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^O Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano function1.sh
sumukh_g@Sumukh:~\$ chmod +x function1.sh
sumukh_g@Sumukh:~\$./function1.sh
Welcome to function 1
sumukh_g@Sumukh:~\$

sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano deletearr.sh
sumukh_g@Sumukh:~\$./deletearr.sh
is
sumukh_g@Sumukh:~\$ nano deletearr.sh
sumukh_g@Sumukh:~\$./deletearr.sh
my is sumukh
sumukh_g@Sumukh:~\$

sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano deletearr.sh

sumukh_g@Sumukh:~\$./deletearr.sh

ts

sumukh_g@Sumukh:~\$

sumukh_g@Sumukh: ~

GNU nano 6.2array2.sh

```
#!/bin/bash

declare -a arr2=("10","20","30","40")

length=${#arr2[@]}

for((i=0;i<${length};i++))
do
echo "${arr2[$i]}"
done
```

Read 10 lines

Help	Write Out	Where Is	Cut	Execute	Location	Undo	Set Mark	To Bracket	Previous	Back	Prev Word
Exit	Read File	Replace	Paste	Justify	Go To Line	Redo	Copy	Where Was	Next	Forward	Next Word

sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano array2.sh

sumukh_g@Sumukh:~\$./array2.sh

10,20,30,40

sumukh_g@Sumukh:~\$

sumukh_g@Sumukh: ~

GNU nano 6.2arrayex1.sh

```
#!/bin/bash

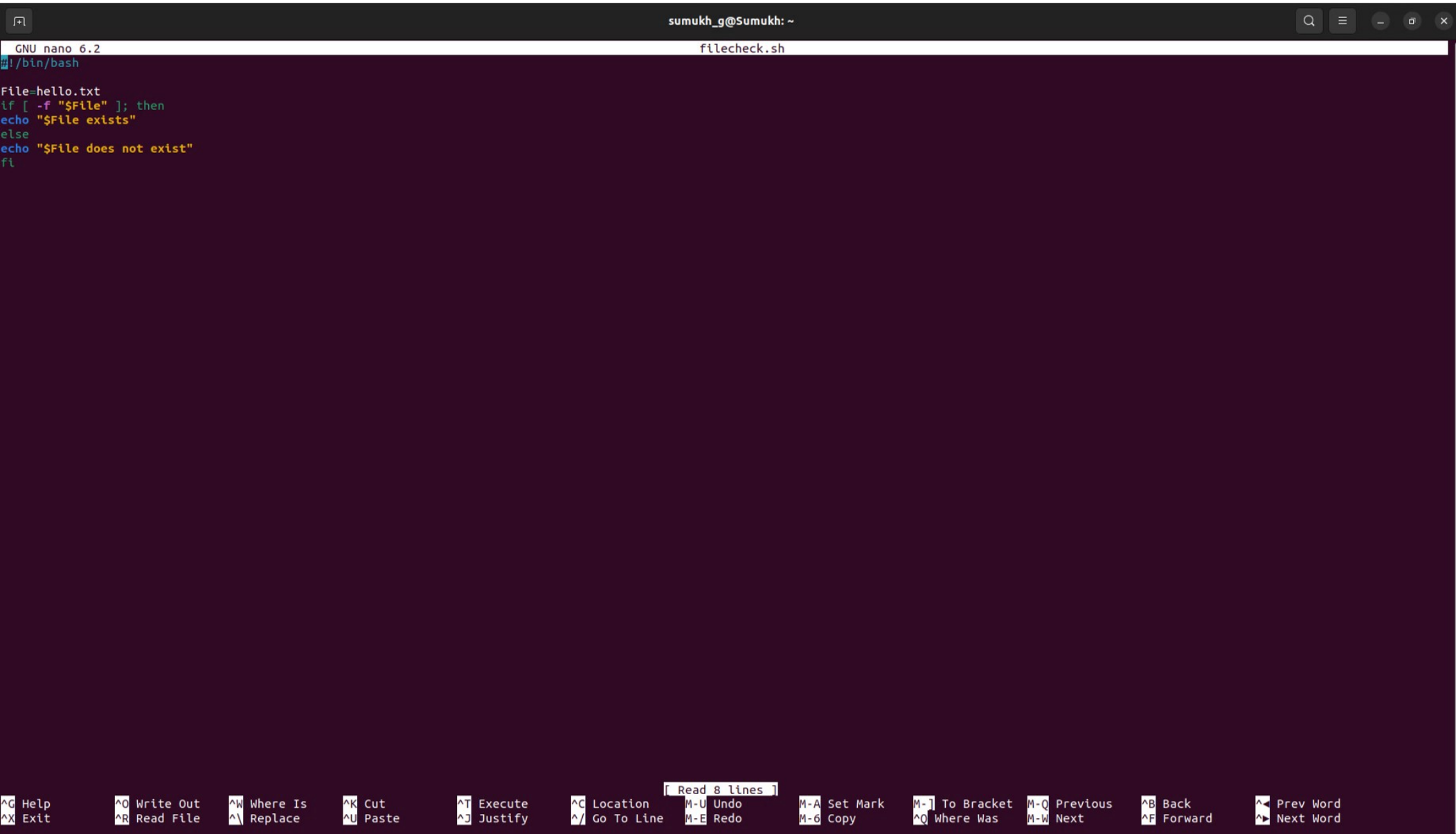
#declaring an array

declare -a arr1=("this","is","a","line")

echo ${arr1[@]}
```

Read 8 lines

Help	Write Out	Where Is	Cut	Execute	Location	Undo	Set Mark	To Bracket	Previous	Back	Prev Word
Exit	Read File	Replace	Paste	Justify	Go To Line	Redo	Copy	Where Was	Next	Forward	Next Word



sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano filecheck.sh

sumukh_g@Sumukh:~\$ chmod +x filecheck.sh

sumukh_g@Sumukh:~\$./filecheck.sh

hello.txt exists

sumukh_g@Sumukh:~\$

sumukh_g@Sumukh: ~

GNU nano 6.2

until.sh

```
#!/bin/bash

a=1

until [ $a -gt 10 ]
do
    echo "a is $a"
    ((a++))
done
```

Read 10 lines

^G Help

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M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-] To Bracket

^O Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

```
sumukh_g@Sumukh:~$ nano until.sh
sumukh_g@Sumukh:~$ chmod +x until.sh
sumukh_g@Sumukh:~$ ./until.sh
a is 1
a is 2
a is 3
a is 4
a is 5
a is 6
a is 7
a is 8
a is 9
a is 10
sumukh_g@Sumukh:~$
```

sumukh_g@Sumukh: ~

GNU nano 6.2while.sh

```
#!/bin/bash

a=5

while [[ $a != 0 ]]
do
    echo "Value of a is $a";
    ((a--));
done
```

Read 11 lines

Help	Write Out	Where Is	Cut	Execute	Location	Undo	Set Mark	To Bracket	Previous	Back	Prev Word
Exit	Read File	Replace	Paste	Justify	Go To Line	Redo	Copy	Where Was	Next	Forward	Next Word

sumukh_g@Sumukh: ~

```
sumukh_g@Sumukh:~$ nano while.sh
sumukh_g@Sumukh:~$ ./while.sh
Value of a is 5
Value of a is 4
Value of a is 3
Value of a is 2
Value of a is 1
sumukh_g@Sumukh:~$
```

sumukh_g@Sumukh: ~

GNU nano 6.2while.sh *

```
#!/bin/bash

a=10
echo "The value of a is $a before while loop"
while [ $a -gt 6 ]
do
    a--
done
echo "The value of a is $a after while loop"
```

Read 10 lines

^G Help

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^R Read File

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^U Paste

^T Execute

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M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^Q Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

GNU nano 6.2while.sh *

```
#!/bin/bash

a=10
echo "The value of a is $a before while loop"
while [ $a -gt 6 ]
do
    a++
done
echo "The value of a is $a after while loop"
```

^G Help

^X Exit

^O Write Out

^R Read File

^W Where Is

^_ Replace

^K Cut

^U Paste

^T Execute

^J Justify

^C Location

^_ Go To Line

Read 10 lines

M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^Q Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

GNU nano 6.2while.sh *

```
#!/bin/bash

a=10
echo "The value of a is $a before while loop"
while [ a -gt 6 ]
do
    a++
done
echo "The value of a is $a after while loop"
```

^G Help

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^_ Replace

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^T Execute

^J Justify

^C Location

^_ Go To Line

M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^O Where Was

M-Q Previous

M-W Next

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^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

```
sumukh_g@Sumukh:~$ nano condition1.sh
sumukh_g@Sumukh:~$ chmod +x condition1.sh
sumukh_g@Sumukh:~$ ./condition1.sh
./condition1.sh: line 7: [: missing `]'
./condition1.sh: line 10: [: missing `]'
c is greatest
sumukh_g@Sumukh:~$ nano condition1.sh
sumukh_g@Sumukh:~$ ./condition1.sh
./condition1.sh: line 10: [: missing `]'
c is greatest
sumukh_g@Sumukh:~$ nano condition1.sh
sumukh_g@Sumukh:~$ ./condition1.sh
c is greatest
sumukh_g@Sumukh:~$
```

sumukh_g@Sumukh: ~

GNU nano 6.2condition1.sh *

```
#!/bin/bash

a=10
b=20
c=30

if [ $a -gt $b ] && [ $a -gt $c ]
then
echo "a is greatest"
elif [ $b -gt $a ] && [ $b -gt $c ]
then
echo "b is greatest"
else
echo "c is greatest"
fi
```

^G Help

^X Exit

^O Write Out

^R Read File

^W Where Is

^_ Replace

^K Cut

^U Paste

^T Execute

^J Justify

^C Location

^_ Go To Line

M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^O Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

GNU nano 6.2condition1.sh *

```
#!/bin/bash

a=10
b=20
c=30

if [ $a -gt $b ] && [ $a -gt $c ]
then
echo "a is greatest"
elif [ $b -gt $a && $b -gt $c ]
then
echo "b is greatest"
else
echo "c is greatest"
fi
```

^G Help

^X Exit

^O Write Out

^R Read File

^W Where Is

^_ Replace

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^T Execute

^J Justify

^C Location

^_ Go To Line

M-U Undo

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M-A Set Mark

M-6 Copy

M-T To Bracket

^O Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

GNU nano 6.2condition1.sh *

```
#!/bin/bash

a=10
b=20
c=30

if [ $a -gt $b && $a -gt $c ]
then
echo "a is greatest"
elif [ $b -gt $a && $b -gt $c ]
then
echo "b is greatest"
else
echo "c is greatest"
fi
```

^G Help

^X Exit

^O Write Out

^R Read File

^W Where Is

^_ Replace

^K Cut

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^T Execute

^J Justify

^C Location

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M-A Set Mark

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M-T To Bracket

^Q Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word


```
sumukh_g@Sumukh: ~  
sumukh_g@Sumukh:~$ nano name.sh  
sumukh_g@Sumukh:~$ ./name.sh  
bash: ./name.sh: Permission denied  
sumukh_g@Sumukh:~$ chmod +x name.sh  
sumukh_g@Sumukh:~$ ./name.sh  
Enter your name  
Sumukh  
Your Name is : Sumukh  
sumukh_g@Sumukh:~$
```

sumukh_g@Sumukh: ~

GNU nano 6.2name.sh *

#!/bin/bash

echo "Enter your name"

read

echo "Your Name is : \$REPLY"

^G Help

^X Exit

^O Write Out

^R Read File

^W Where Is

^_ Replace

^K Cut

^U Paste

^T Execute

^J Justify

^C Location

^_ Go To Line

M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^O Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

GNU nano 6.2case.sh *

```
#!/bin/bash

FRUIT="apple"

case "$FRUIT" in
    "apple") echo "Kashmir is famous for apple"
    ;;
    "kiwi") echo "NewZealand is famous for kiwi"
    ;;
    "cherry") echo "Middle East is famous for cherry"
    ;;
    *) echo "Nothing found"
    ;;
esac
```

^G Help

^X Exit

^O Write Out

^R Read File

^W Where Is

^_ Replace

^K Cut

^U Paste

^T Execute

^J Justify

^C Location

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M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^O Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

```
sumukh_g@Sumukh:~$ nano table.sh
sumukh_g@Sumukh:~$ ./table.sh
Enter the number 10
10 x 1 = 10
10 x 2 = 20
10 x 3 = 30
10 x 4 = 40
10 x 5 = 50
10 x 6 = 60
10 x 7 = 70
10 x 8 = 80
10 x 9 = 90
10 x 10 = 100
sumukh_g@Sumukh:~$
```

sumukh_g@Sumukh: ~

GNU nano 6.2table.sh *

```
#!/bin/bash

read -p "Enter the number" num

#This is file for tables of a number

for i in {1..10}
do
    echo "$num x $i = $((num * i))"
done
```

Help	Write Out	Where Is	Cut	Execute	Location	M-U Undo	M-A Set Mark	M-T To Bracket	M-Q Previous	B Back	Prev Word
Exit	Read File	Replace	Paste	Justify	Go To Line	M-E Redo	M-6 Copy	Where Was	M-W Next	Forward	Next Word

```
sumukh_g@Sumukh: ~  
sumukh_g@Sumukh:~$ cat /etc/shells  
# /etc/shells: valid login shells  
/bin/sh  
/bin/bash  
/usr/bin/bash  
/bin/rbash  
/usr/bin/rbash  
/usr/bin/sh  
/bin/dash  
/usr/bin/dash  
sumukh_g@Sumukh:~$ which bash  
/usr/bin/bash  
sumukh_g@Sumukh:~$ nano hello.sh  
sumukh_g@Sumukh:~$ ./hello.sh  
bash: ./hello.sh: Permission denied  
sumukh_g@Sumukh:~$ chmod +x hello.h  
chmod: cannot access 'hello.h': No such file or directory  
sumukh_g@Sumukh:~$  
sumukh_g@Sumukh:~$ chmod +x hello.sh  
sumukh_g@Sumukh:~$ ./hello.sh  
welcome to hello world  
sumukh_g@Sumukh:~$ nano tables.sh  
sumukh_g@Sumukh:~$  
sumukh_g@Sumukh:~$ nano table.sh  
sumukh_g@Sumukh:~$ nano tables.sh  
sumukh_g@Sumukh:~$ nano table.sh  
sumukh_g@Sumukh:~$ chmod +x table.sh  
sumukh_g@Sumukh:~$ ./table.sh  
num 10  
* 1 = 0  
* 2 = 0  
* 3 = 0  
* 4 = 0  
* 5 = 0  
* 6 = 0  
* 7 = 0  
* 8 = 0  
* 9 = 0  
* 10 = 0  
sumukh_g@Sumukh:~$
```

sumukh_g@Sumukh: ~

GNU nano 6.2table.sh *

```
#!/bin/bash

read -p num

#This is file for tables of a number

for i in {1..10}
do
    echo "$num * $i = $((num * i))"
done
```

^G Help

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^O Write Out

^R Read File

^W Where Is

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M-A Set Mark

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M-Q Previous

M-W Next

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^F Forward

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^_ Next Word

sumukh_g@Sumukh: ~

GNU nano 6.2strcont.sh

```
#!/bin/bash

str1="hello"
str2="world"

str3=$str1$str2

echo "$str3"
```

Read 8 lines

^G Help

^X Exit

^O Write Out

^R Read File

^W Where Is

^_ Replace

^K Cut

^U Paste

^T Execute

^J Justify

^C Location

^_ Go To Line

M-U Undo

M-E Redo

M-A Set Mark

M-6 Copy

M-T To Bracket

^O Where Was

M-Q Previous

M-W Next

^B Back

^F Forward

^_ Prev Word

^_ Next Word

sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano strcont.sh

sumukh_g@Sumukh:~\$ chmod +x strcont.sh

sumukh_g@Sumukh:~\$./strcont.sh

helloworld

sumukh_g@Sumukh:~\$

```
sumukh_g@Sumukh: ~  
sumukh_g@Sumukh:~$ nano substring.sh  
sumukh_g@Sumukh:~$ chmod +x substring.sh  
sumukh_g@Sumukh:~$ ./substring.sh  
Welcome to shell scripting  
String : Welcome to shell scripting  
Substr : Welcome to  
sumukh_g@Sumukh:~$ nano substring.sh  
sumukh_g@Sumukh:~$ ./substring.sh  
Welcome to shell scripting  
String : Welcome to shell scripting  
Substr : shell scripting  
sumukh_g@Sumukh:~$ nano substring.sh  
sumukh_g@Sumukh:~$ ./substring.sh  
Welcome to shell scripting  
String : Welcome to shell scripting  
Substr :  
sumukh_g@Sumukh:~$ nano substring.sh  
sumukh_g@Sumukh:~$ ./substring.sh  
Welcome to shell scripting  
String : Welcome to shell scripting  
Substr : s  
sumukh_g@Sumukh:~$ nano substring.sh  
sumukh_g@Sumukh:~$
```



```
sumukh_g@Sumukh: ~  
sumukh_g@Sumukh:~$ nano strln.sh  
sumukh_g@Sumukh:~$ ./strln.sh  
The length of Hello World is 11  
sumukh_g@Sumukh:~$ nano strln.sh  
sumukh_g@Sumukh:~$ ./strln.sh  
The length of How are you doing? is 18  
sumukh_g@Sumukh:~$ nano strln.sh  
sumukh_g@Sumukh:~$  
sumukh_g@Sumukh:~$ ./strln.sh  
./strln.sh: line 14: unexpected EOF while looking for matching `'  
./strln.sh: line 16: syntax error: unexpected end of file  
sumukh_g@Sumukh:~$ nano strln.sh  
sumukh_g@Sumukh:~$ ./strln.sh  
expr: syntax error: unexpected argument `:.*'  
The length of How are you doing? is  
sumukh_g@Sumukh:~$ nano strln.sh  
sumukh_g@Sumukh:~$ ./strln.sh  
./strln.sh: line 19: wc-c: command not found  
The length of How are you doing? is  
sumukh_g@Sumukh:~$ nano strln.sh  
sumukh_g@Sumukh:~$ ./strln.sh  
The length of How are you doing? is 1  
sumukh_g@Sumukh:~$ nano strln.sh  
sumukh_g@Sumukh:~$
```


sumukh_g@Sumukh: ~

GNU nano 6.2strln.sh *

#!/bin/bash

#str1="Hello World"

#length=\${#str1}

#echo "The length of \$str1 is \$length"

#str2="How are you doing?"

#length=`expr length "\$str2"`

#echo "The length of \$str2 is \$length"

#str2="How are you doing?"

#length=`expr "\$str2" :'.*'\`

#echo "The length of \$str2 is \$length"

#str2="How are you doing?"

#length=`echo \$str|wc -c`

#echo "The length of \$str2 is \$length"

Cancelled

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location	M-U Undo	M-A Set Mark	M-T To Bracket	M-Q Previous	^B Back	^P Prev Word
^X Exit	^R Read File	^L Replace	^U Paste	^J Justify	^_ Go To Line	M-E Redo	M-6 Copy	^Q Where Was	M-W Next	^F Forward	^N Next Word

sumukh_g@Sumukh: ~

sumukh_g@Sumukh:~\$ nano cmdline.sh
sumukh_g@Sumukh:~\$ chmod +x cmdline.sh
sumukh_g@Sumukh:~\$./cmdline.sh abc 23 sumukh
Username : abc
Age : 23
Name: sumukh
sumukh_g@Sumukh:~\$