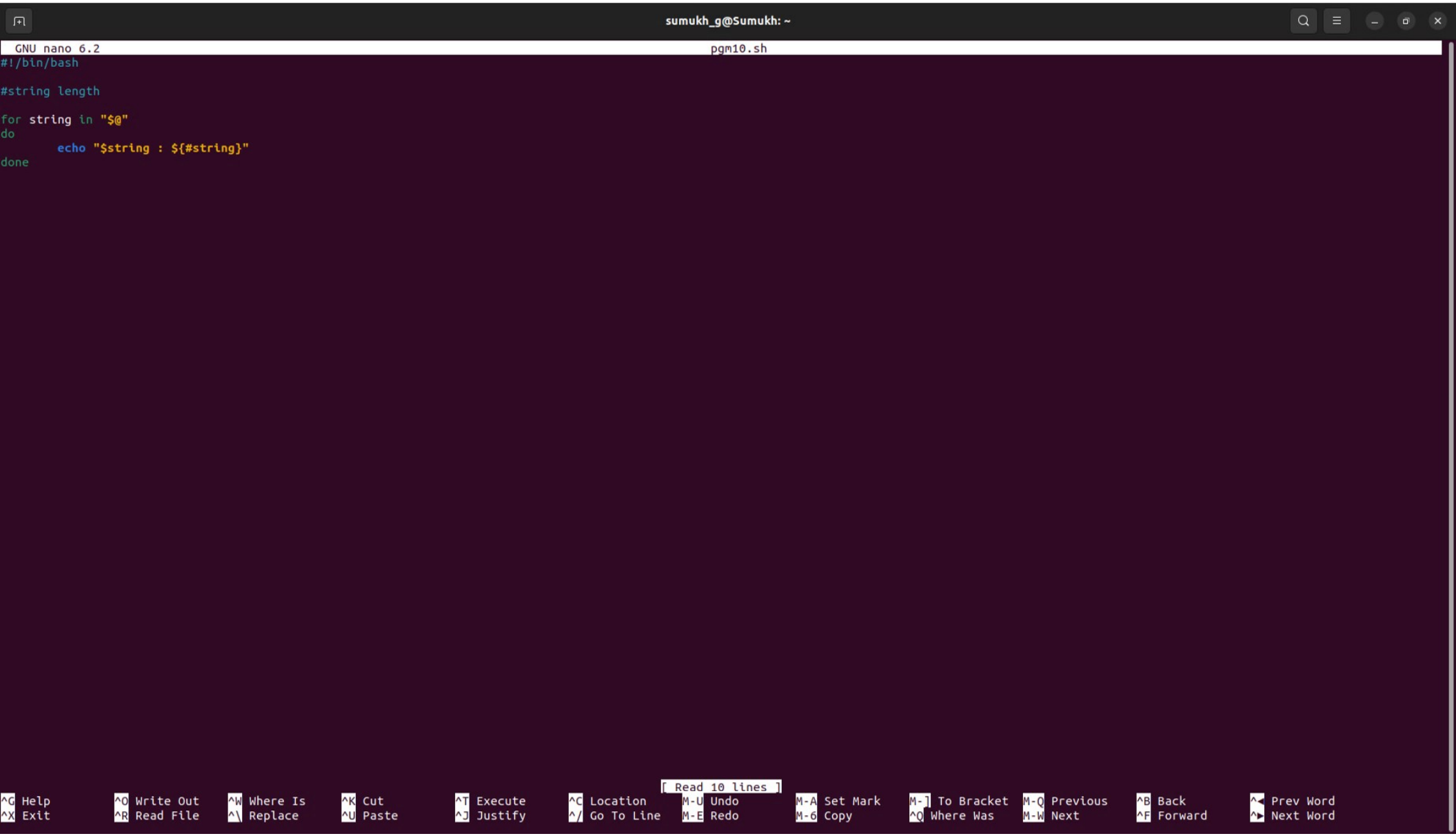
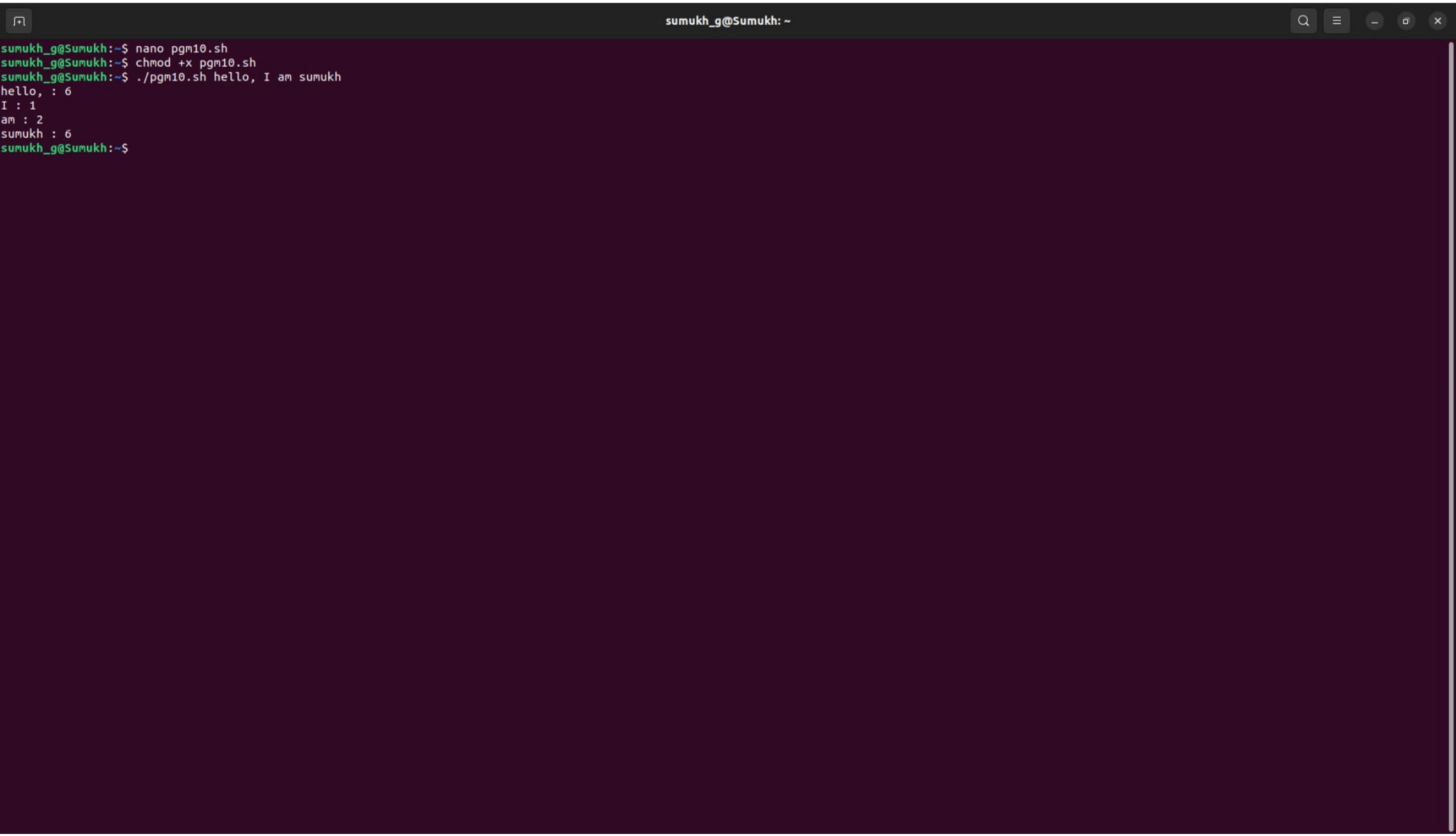
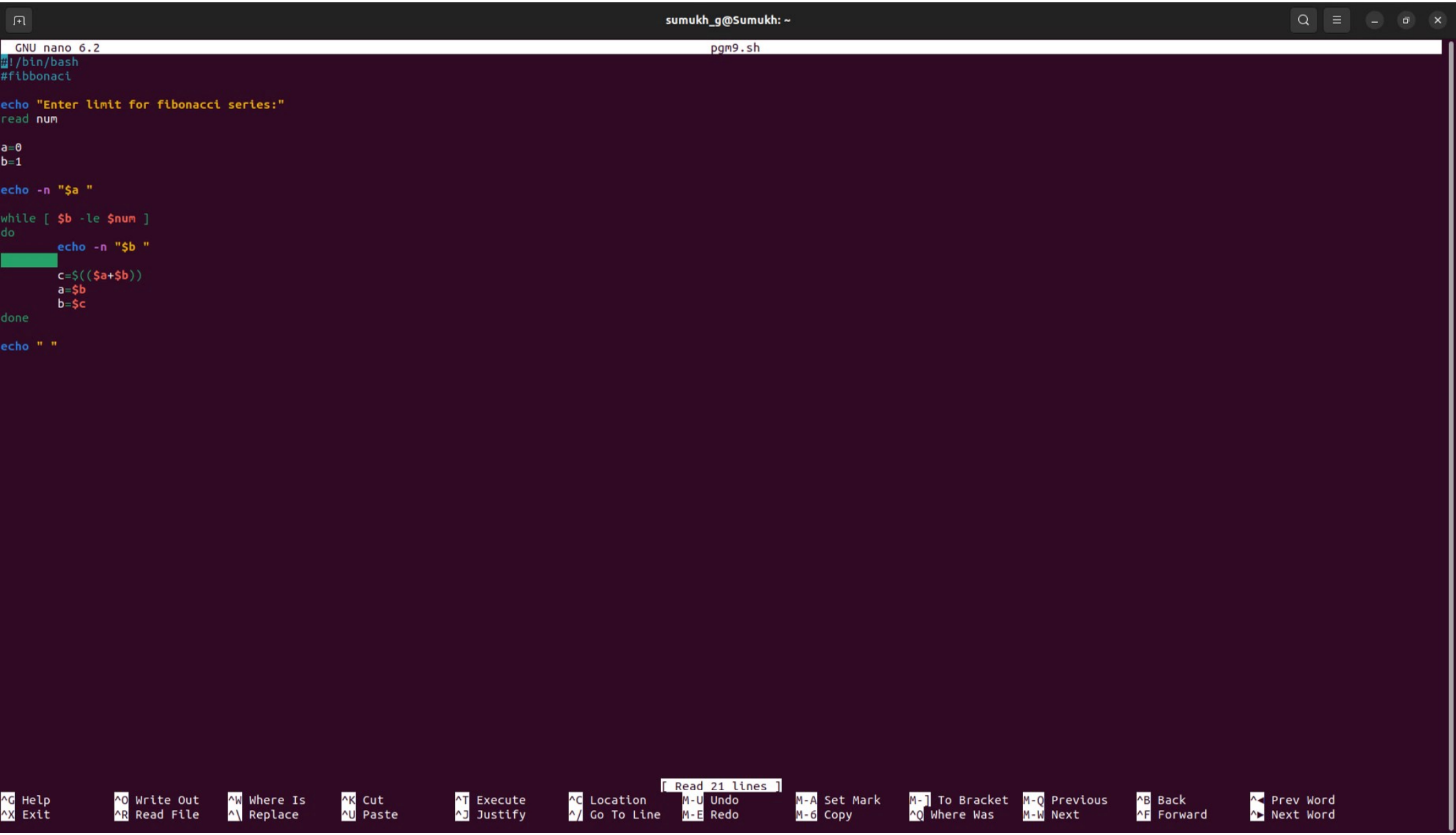
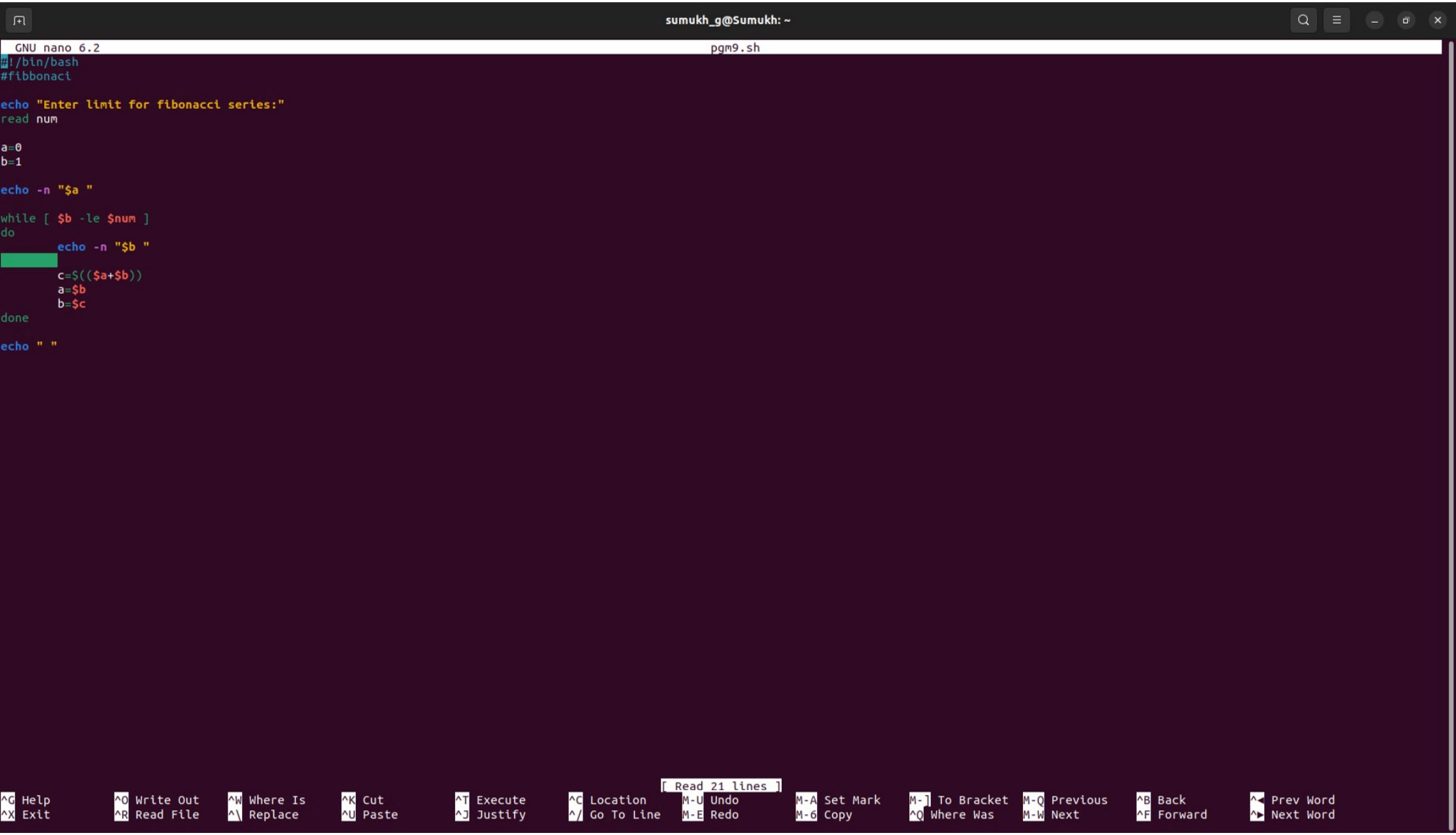
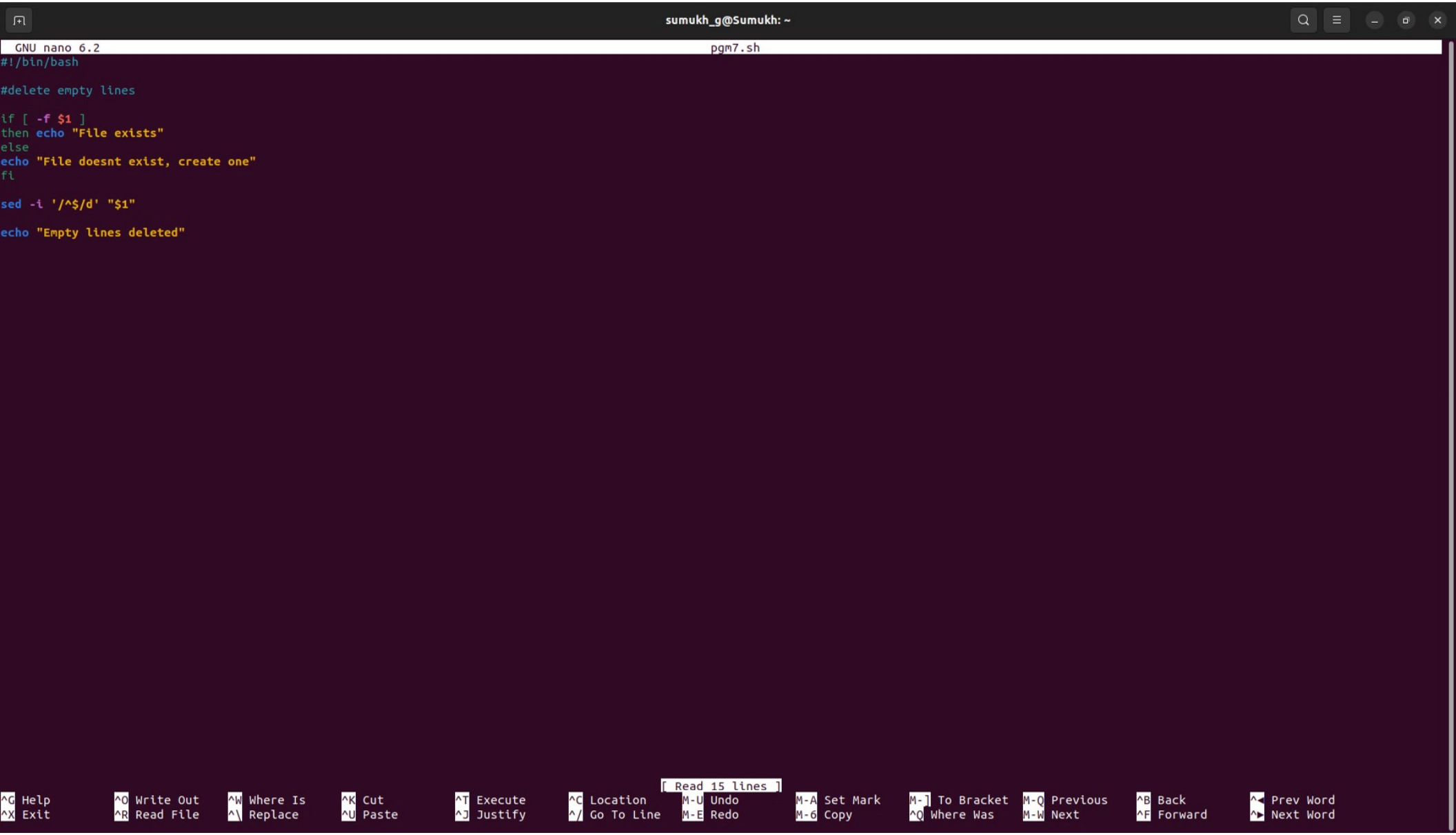

sumukh_g@Sumukh: ~
GNU nano 6.2 pgm10.sh
#!/bin/bash
#string length
for string in "$@"
do
echo "$string : ${#string}"
done
[Read 10 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

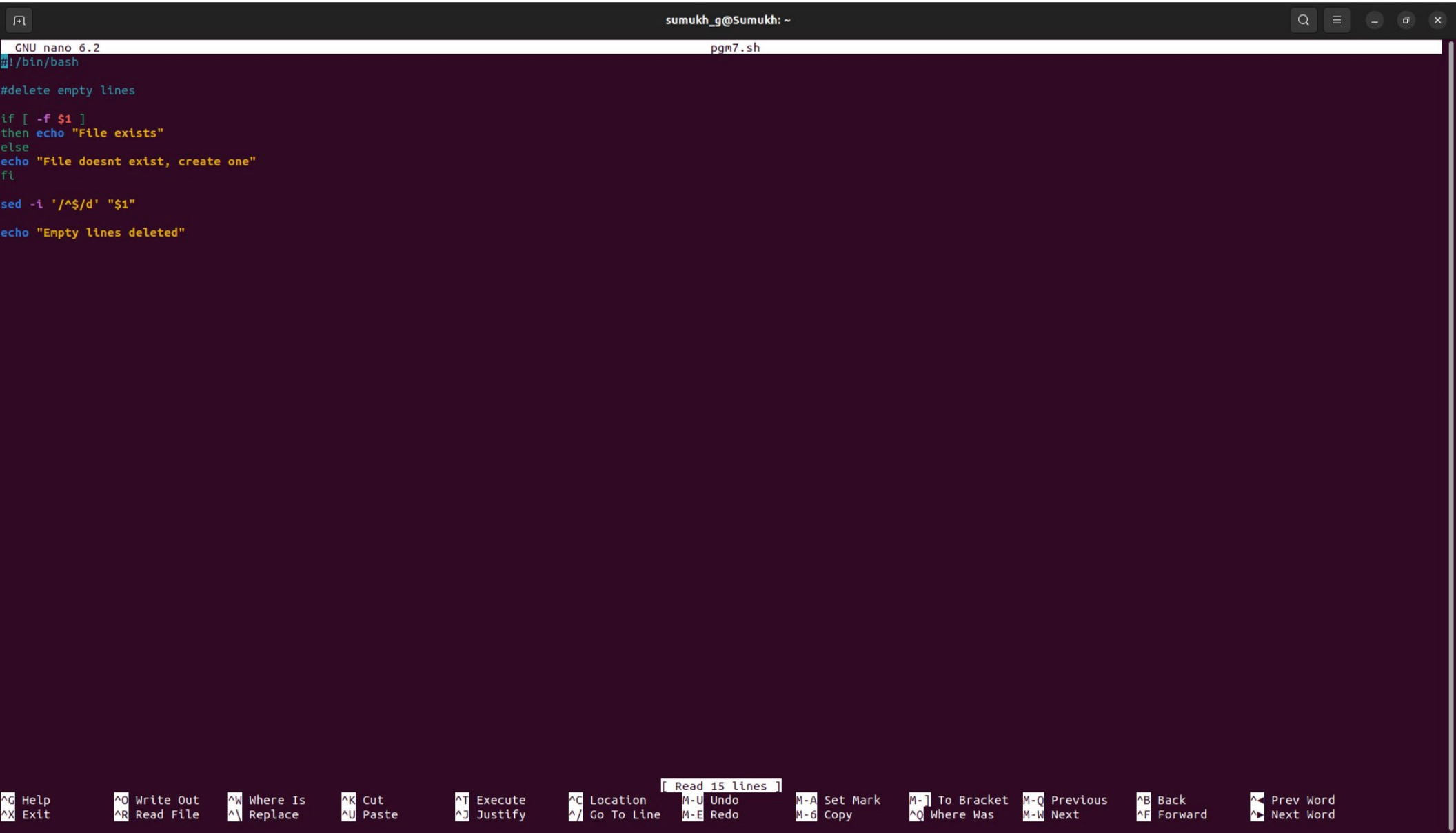

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm10.sh
sumukh_g@Sumukh:~$ chmod +x pgm10.sh
sumukh_g@Sumukh:~$ ./pgm10.sh hello, I am sumukh
hello, : 6
I : 1
am : 2
sumukh : 6
sumukh_g@Sumukh:~$


sumukh_g@Sumukh: ~
GNU nano 6.2
pgm9.sh
#!/bin/bash
#fibbonaci
echo "Enter limit for fibonacci series:"
read num
a=0
b=1
echo -n "$a "
while [$b -le $num]
do
echo -n "$b "
c=$(($a+$b))
a=$b
b=$c
done
echo " "
[Read 21 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

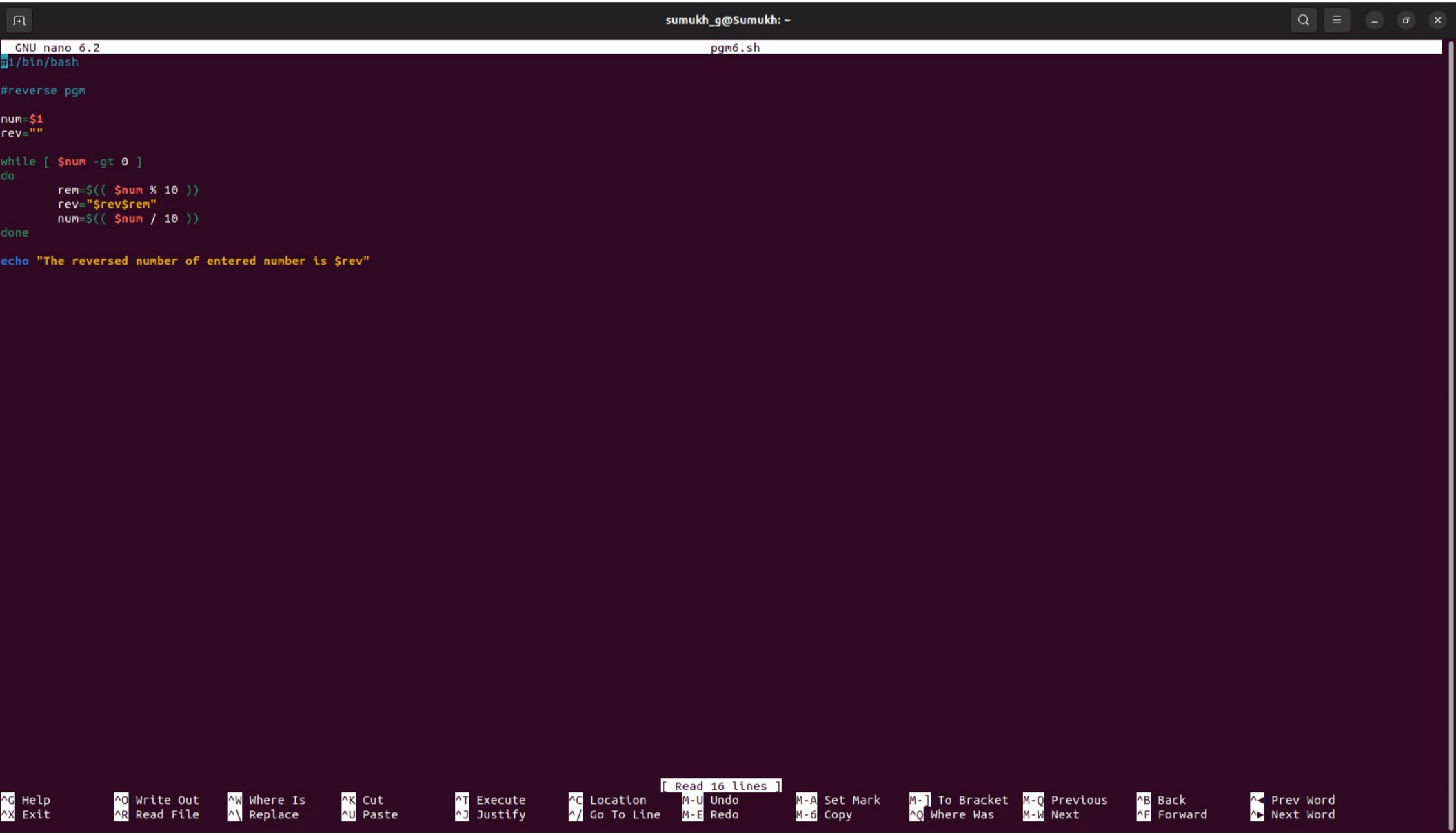

sumukh_g@Sumukh: ~
GNU nano 6.2
pgm9.sh
#!/bin/bash
#fibbonaci
echo "Enter limit for fibonacci series:"
read num
a=0
b=1
echo -n "$a "
while [$b -le $num]
do
echo -n "$b "
c=$(($a+$b))
a=$b
b=$c
done
echo " "
[Read 21 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

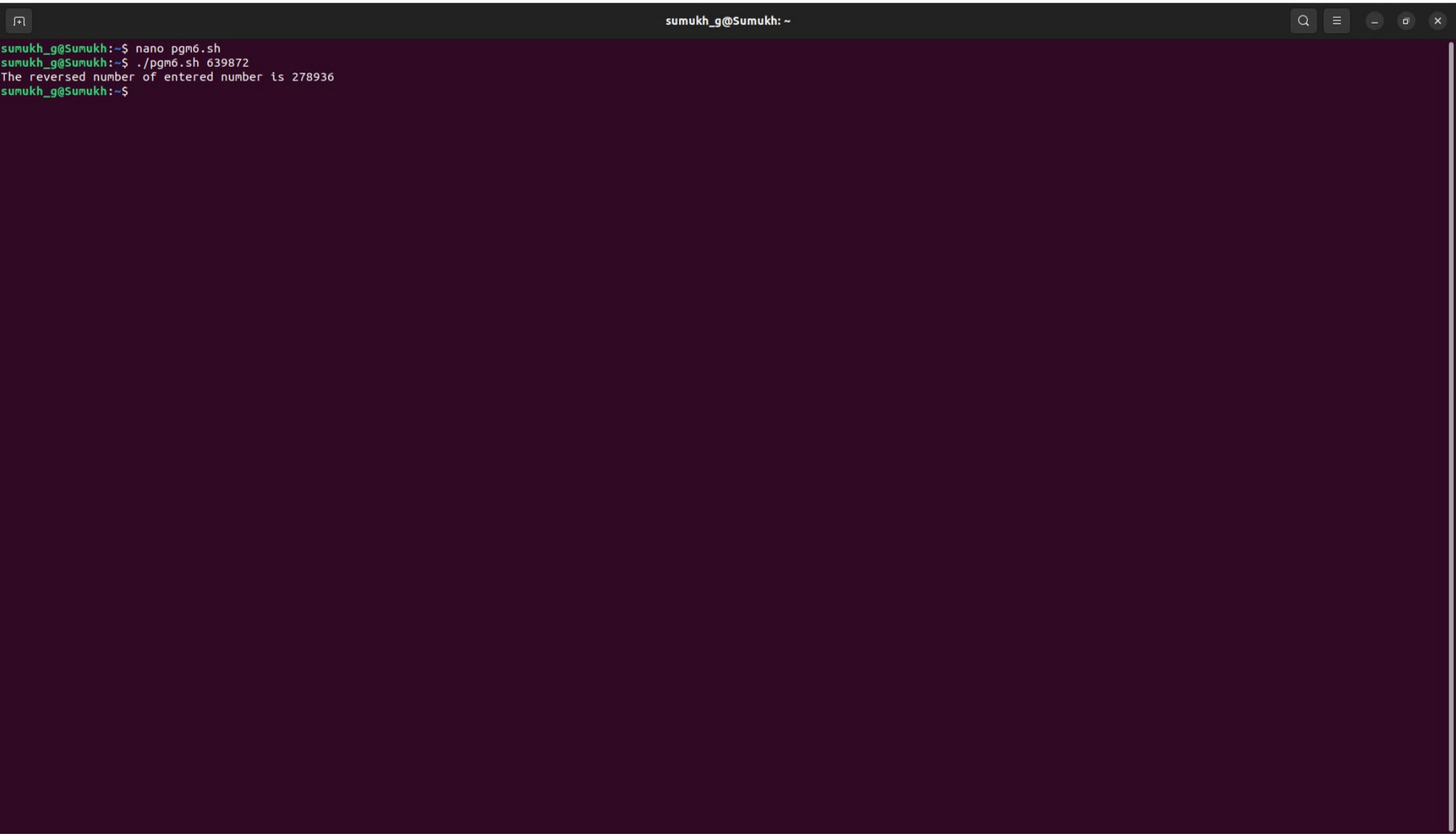

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm9.sh
sumukh_g@Sumukh:~$ ./pgm9.sh
Enter limit for fibonacci series:
13
0 1 1 2 3 5 8 13
sumukh_g@Sumukh:~$

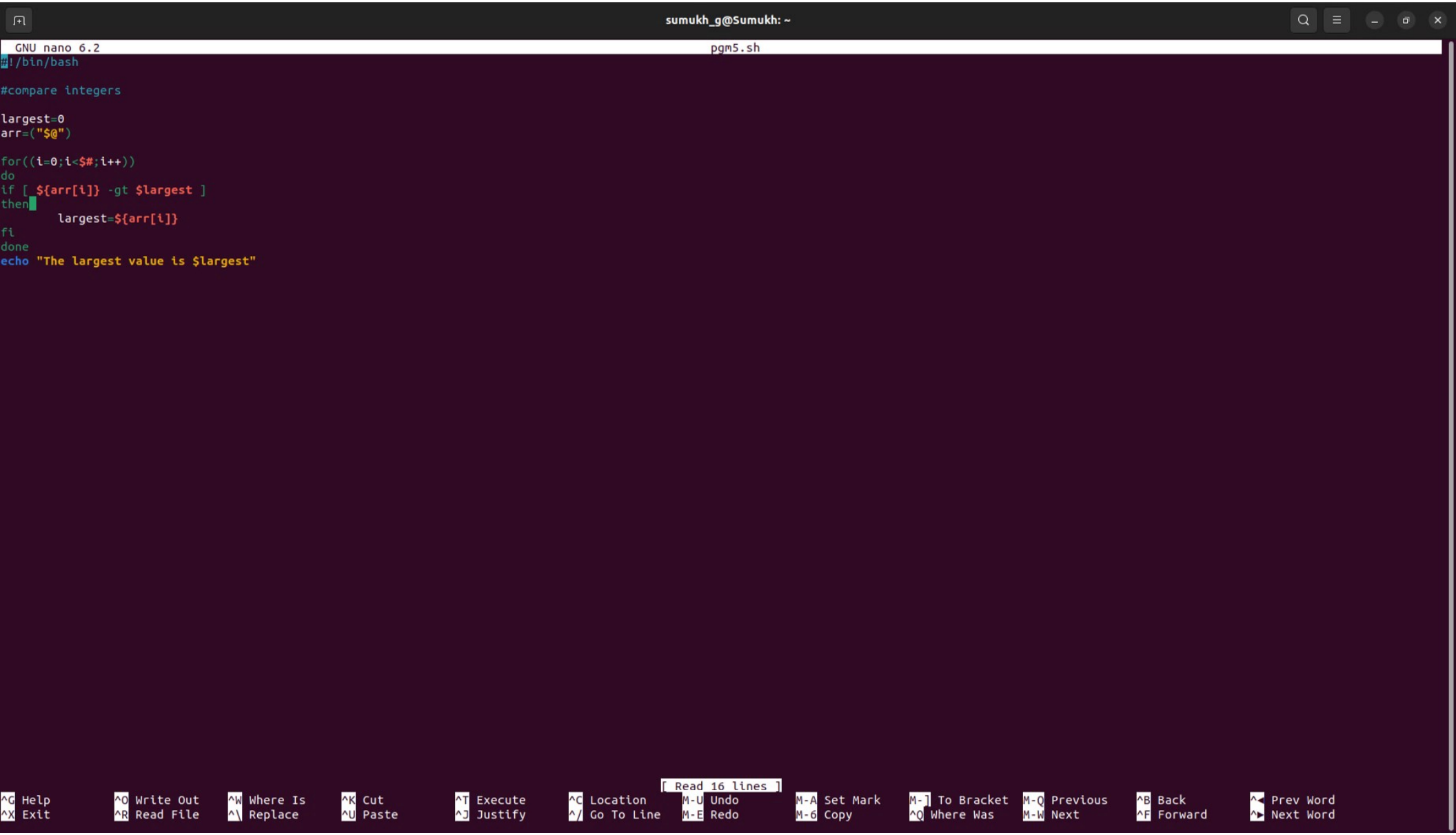

sumukh_g@Sumukh: ~
GNU nano 6.2 pgm7.sh
#!/bin/bash
#delete empty lines
if [-f $1]
then echo "File exists"
else
echo "File doesnt exist, create one"
fi
sed -i '/^$/d' "$1"
echo "Empty lines deleted"
[Read 15 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

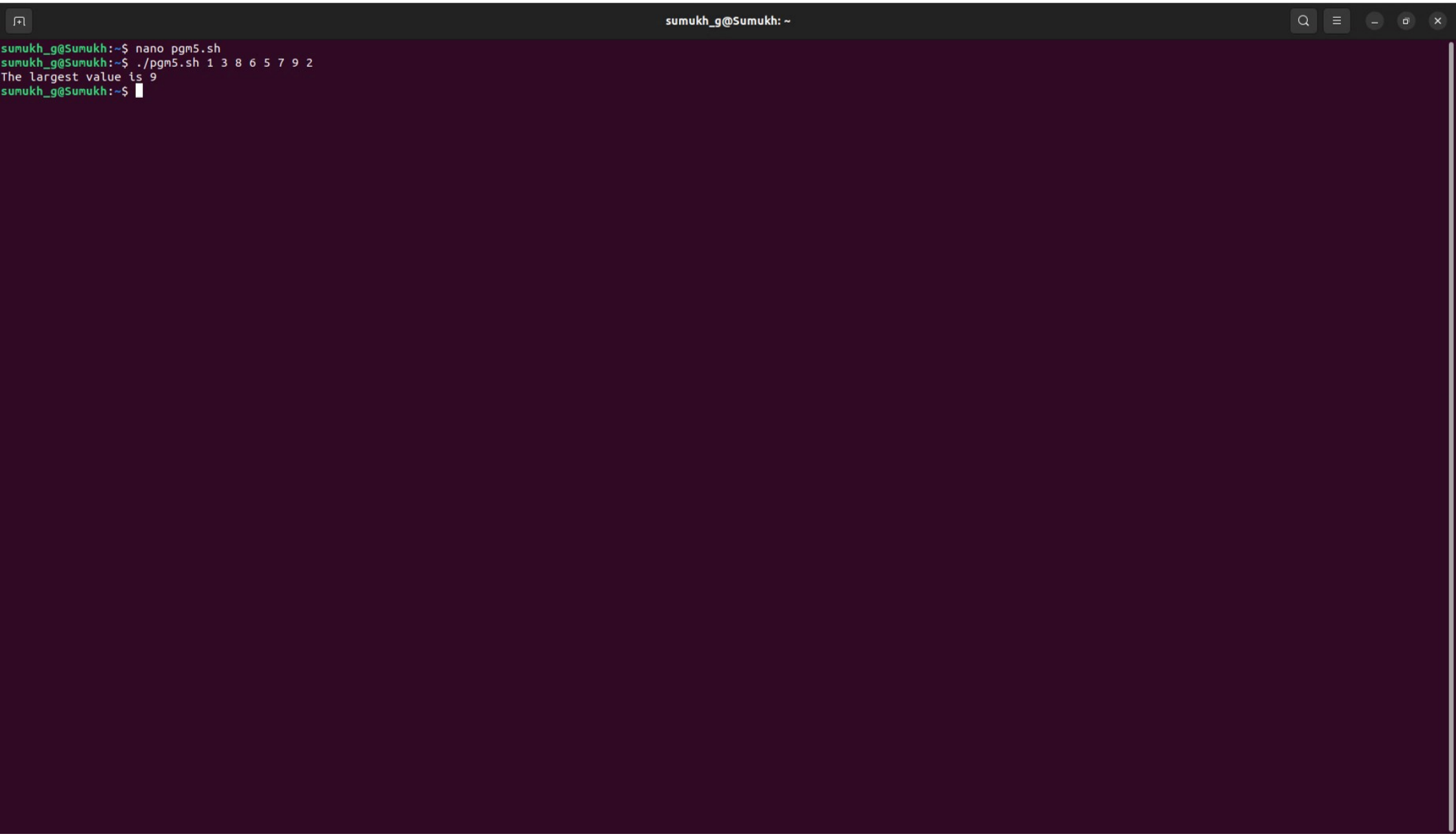

sumukh_g@Sumukh: ~
GNU nano 6.2 pgm7.sh
#!/bin/bash
#delete empty lines
if [-f $1]
then echo "File exists"
else
echo "File doesnt exist, create one"
fi
sed -i '/^$/d' "$1"
echo "Empty lines deleted"
[Read 15 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

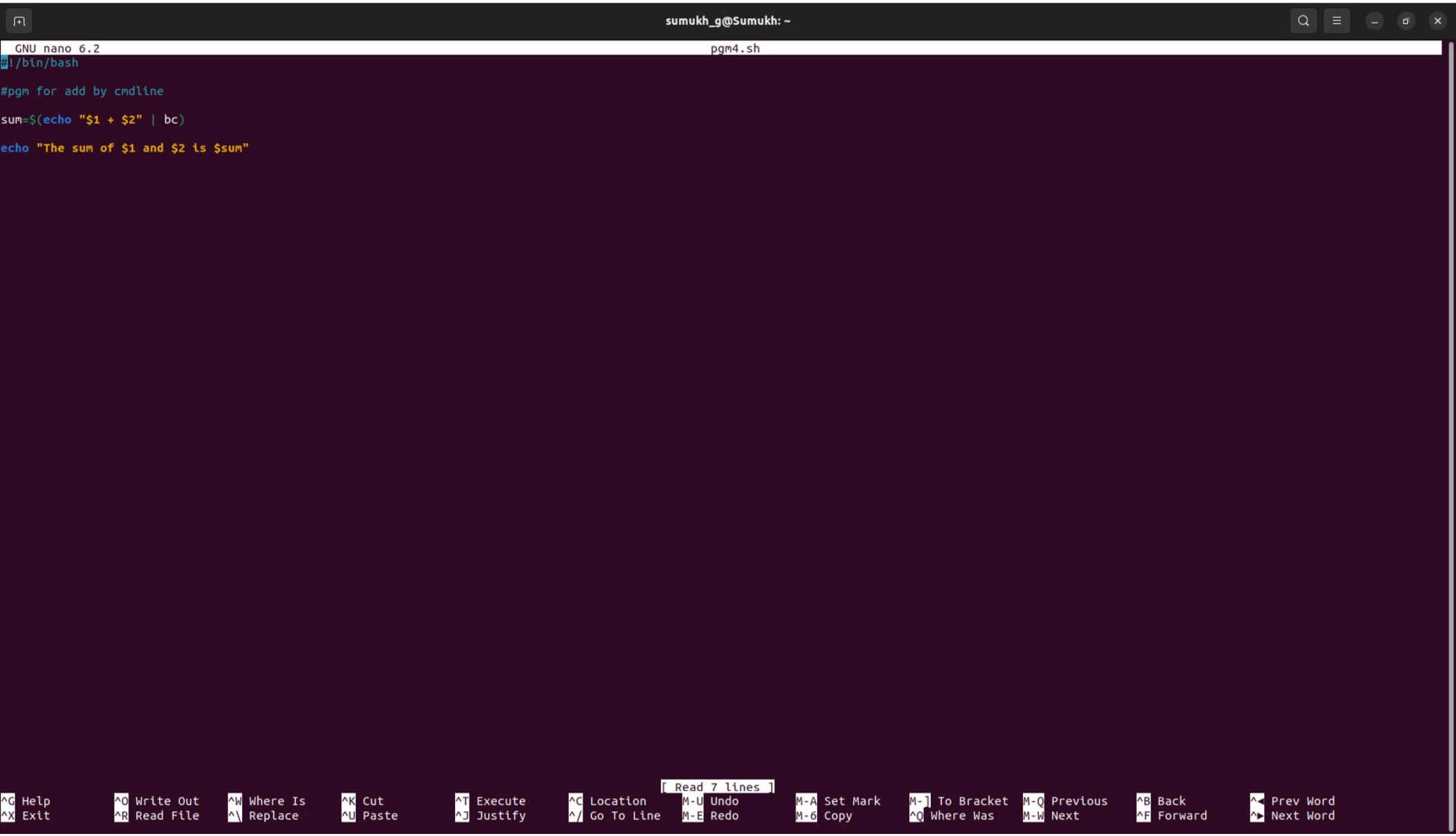

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ cat file.txt
Hello, I am Sumukh
I am from Bengaluru
I studied BE in civil
sumukh_g@Sumukh:~$ nano pgm7.sh
sumukh_g@Sumukh:~$ chmod +X pgm7.sh
sumukh_g@Sumukh:~$ ./pgm7.sh file.txt
bash: ./pgm7.sh: Permission denied
sumukh_g@Sumukh:~$ chmod +x pgm7.sh
sumukh_g@Sumukh:~$ ./pgm7.sh file.txt
File exists
Empty lines deleted
sumukh_g@Sumukh:~$ cat file.txt
Hello, I am Sumukh
I am from Bengaluru
I studied BE in civil
sumukh_g@Sumukh:~$


sumukh_g@Sumukh: ~
GNU nano 6.2
pgm6.sh
#1/bin/bash
#reverse pgm
num=$1
rev=""
while [$num -gt 0]
do
rem=$(($num % 10))
rev="revrem"
num=$(($num / 10))
done
echo "The reversed number of entered number is $rev"
[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-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

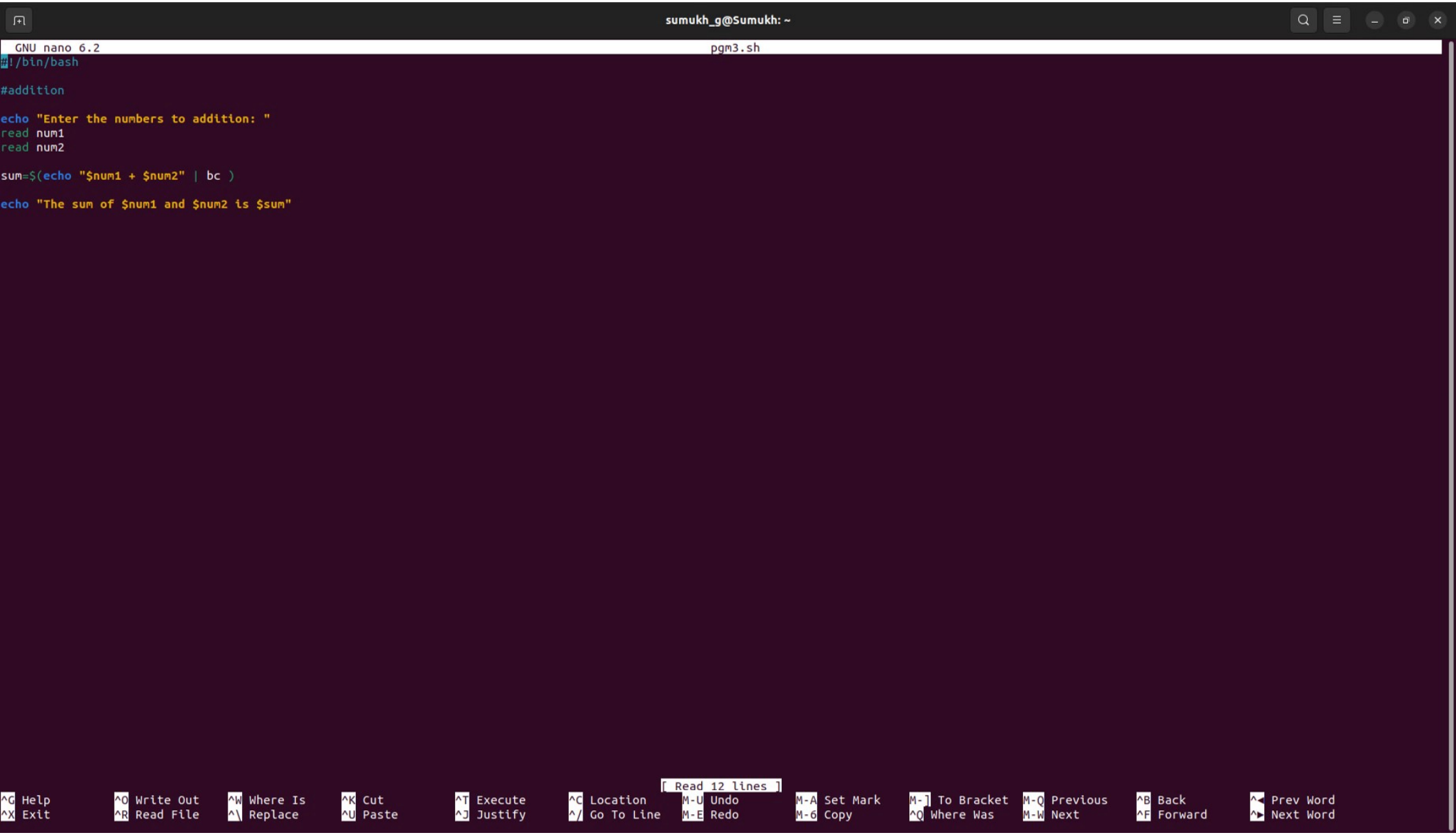

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm6.sh
sumukh_g@Sumukh:~$ ./pgm6.sh 639872
The reversed number of entered number is 278936
sumukh_g@Sumukh:~$

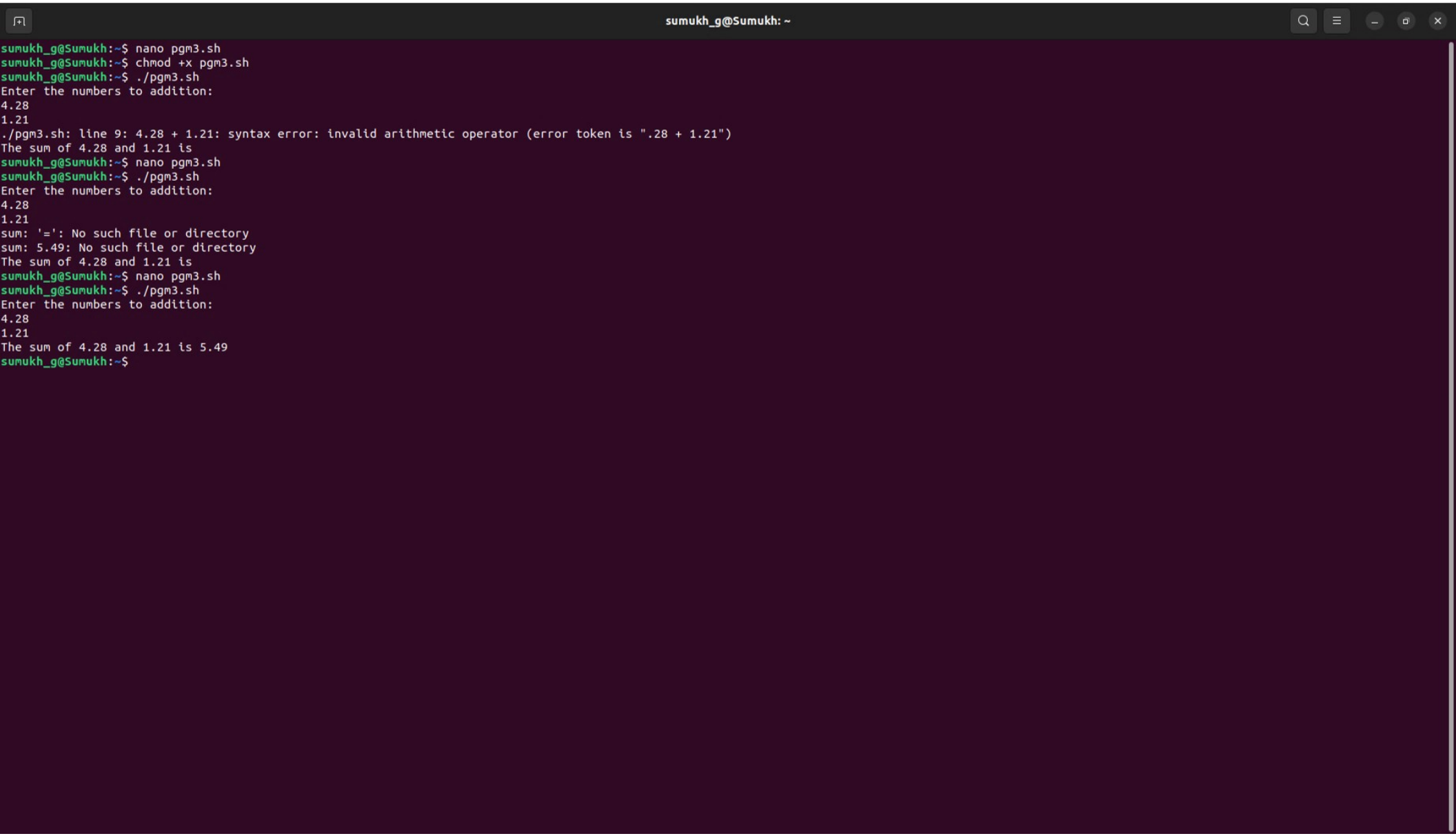

sumukh_g@Sumukh: ~
GNU nano 6.2
pgm5.sh
#!/bin/bash
#compare integers
largest=0
arr=("$@")
for((i=0;i<$#;i++))
do
if [${arr[i]} -gt $largest]
then
largest=${arr[i]}
fi
done
echo "The largest value is $largest"
[Read 16 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

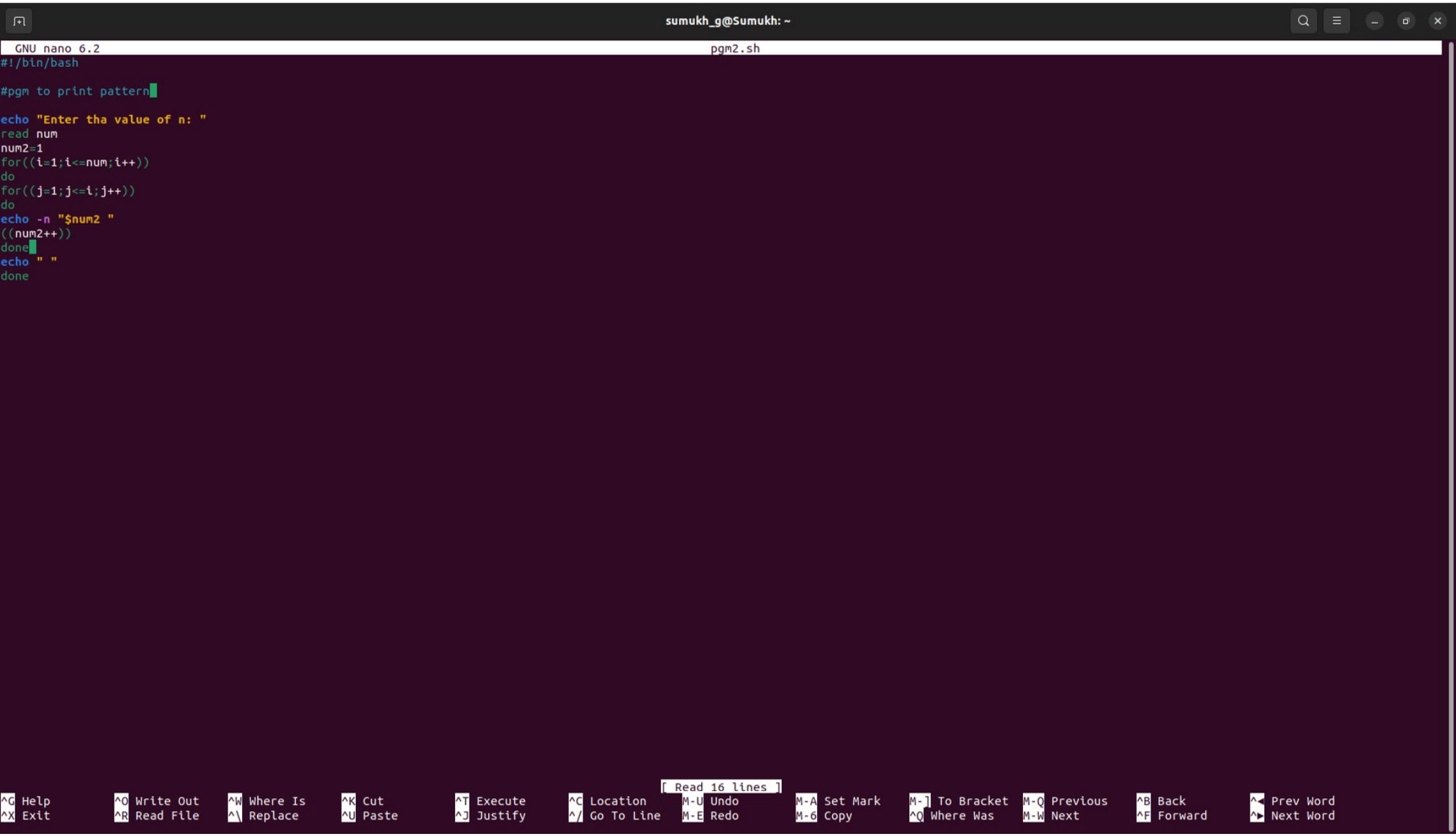

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm5.sh
sumukh_g@Sumukh:~$ ./pgm5.sh 1 3 8 6 5 7 9 2
The largest value is 9
sumukh_g@Sumukh:~$

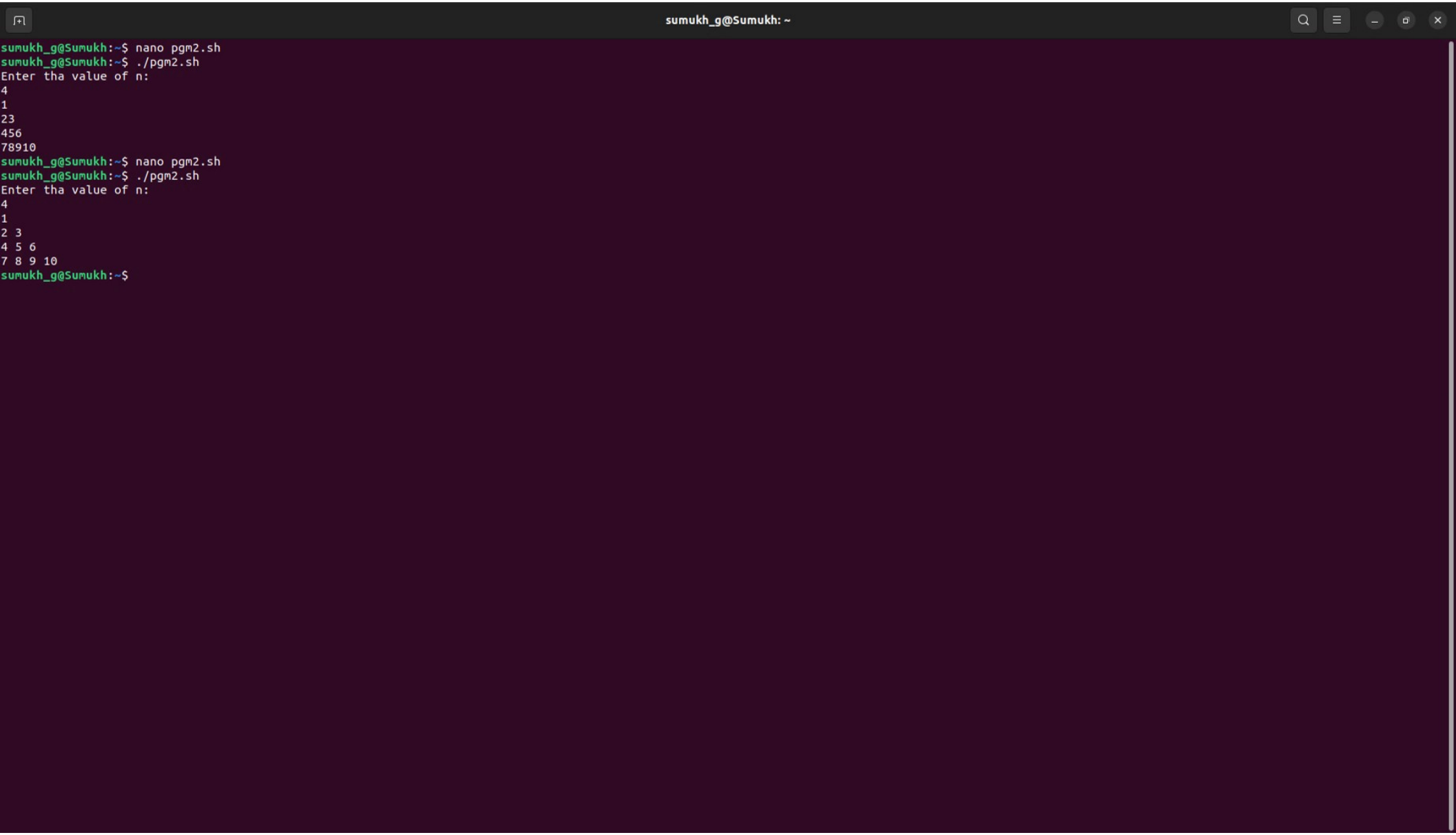

sumukh_g@Sumukh: ~
GNU nano 6.2 pgm4.sh
#!/bin/bash
#pgm for add by cmdline
sum=$(echo "$1 + $2" | bc)
echo "The sum of $1 and $2 is $sum"
[Read 7 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

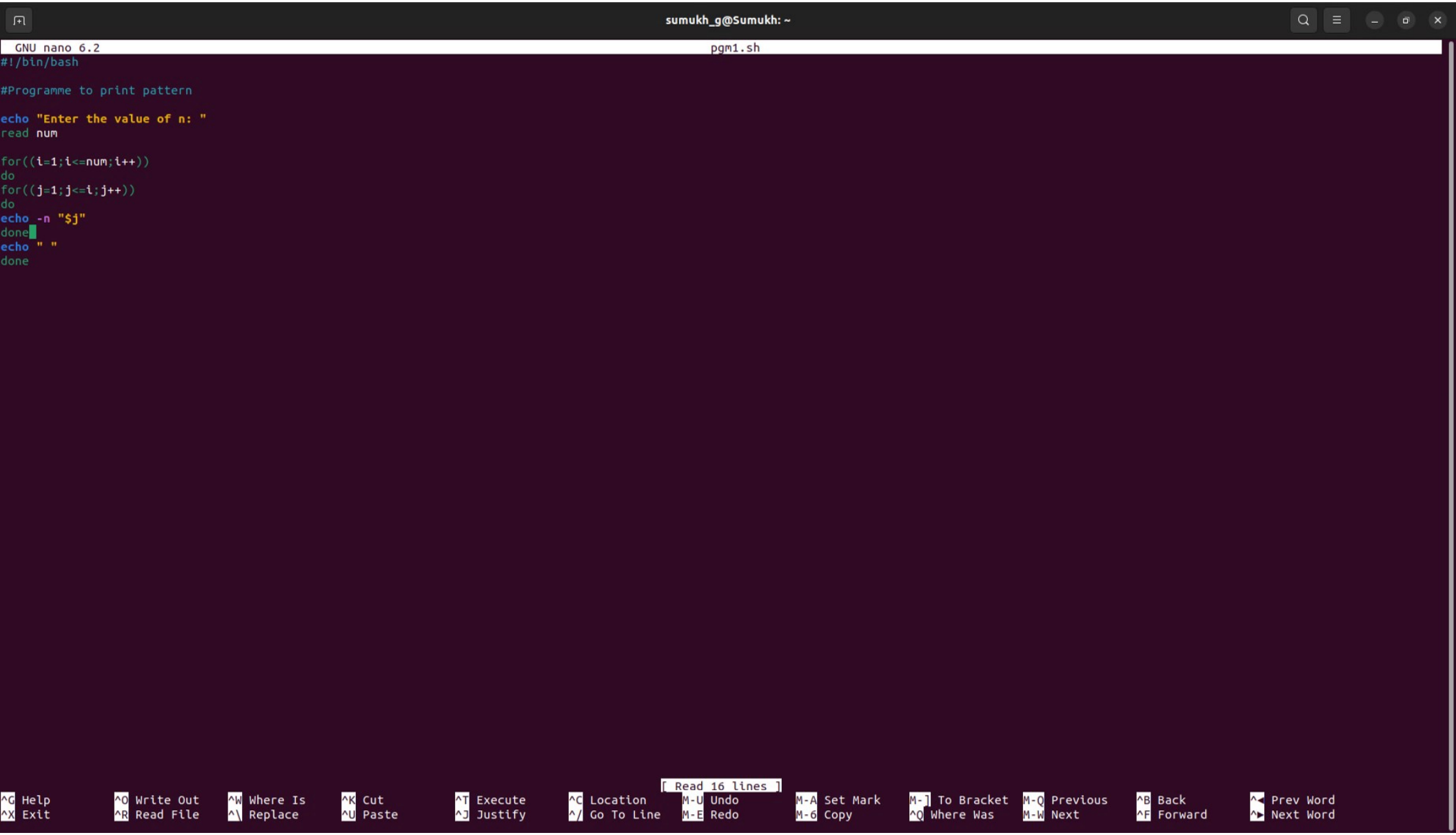

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm4.sh
sumukh_g@Sumukh:~$ ./pgm4.sh 1.2 2.6
The sum of 1.2 and 2.6 is 3.8
sumukh_g@Sumukh:~$


sumukh_g@Sumukh: ~
GNU nano 6.2 pgm3.sh
#!/bin/bash
#addition
echo "Enter the numbers to addition: "
read num1
read num2
sum=$(echo "$num1 + $num2" | bc)
echo "The sum of $num1 and $num2 is $sum"
[Read 12 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

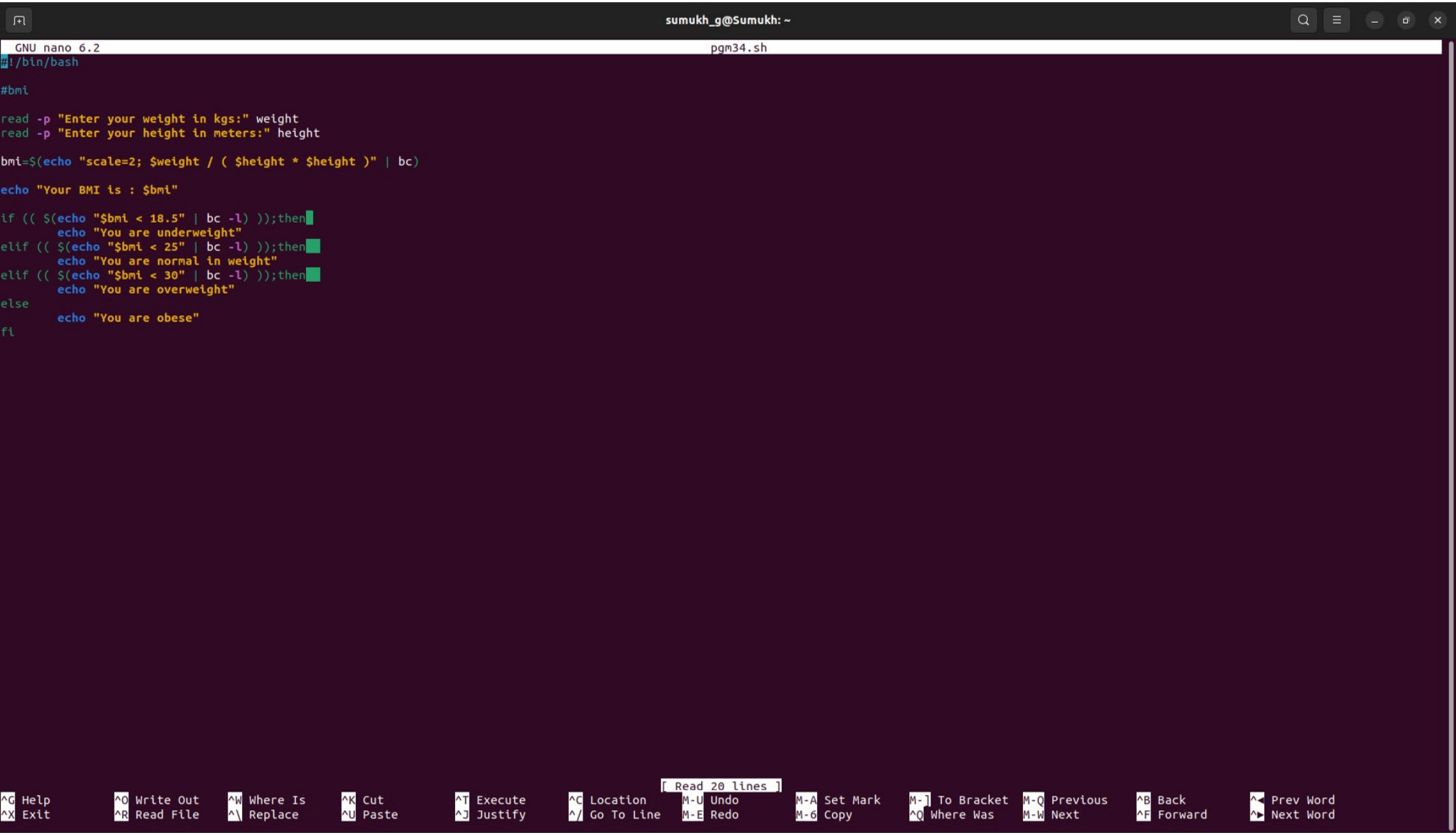

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm3.sh
sumukh_g@Sumukh:~$ chmod +x pgm3.sh
sumukh_g@Sumukh:~$ ./pgm3.sh
Enter the numbers to addition:
4.28
1.21
./pgm3.sh: line 9: 4.28 + 1.21: syntax error: invalid arithmetic operator (error token is ".28 + 1.21")
The sum of 4.28 and 1.21 is
sumukh_g@Sumukh:~$ nano pgm3.sh
sumukh_g@Sumukh:~$ ./pgm3.sh
Enter the numbers to addition:
4.28
1.21
sum: '=': No such file or directory
sum: 5.49: No such file or directory
The sum of 4.28 and 1.21 is
sumukh_g@Sumukh:~$ nano pgm3.sh
sumukh_g@Sumukh:~$ ./pgm3.sh
Enter the numbers to addition:
4.28
1.21
The sum of 4.28 and 1.21 is 5.49
sumukh_g@Sumukh:~$


sumukh_g@Sumukh: ~
GNU nano 6.2
pgm2.sh
#!/bin/bash
#pgm to print pattern
echo "Enter tha value of n: "
read num
num2=1
for((i=1;i<=num;i++))
do
for((j=1;j<=i;j++))
do
echo -n "$num2 "
((num2++))
done
echo " "
done
[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-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

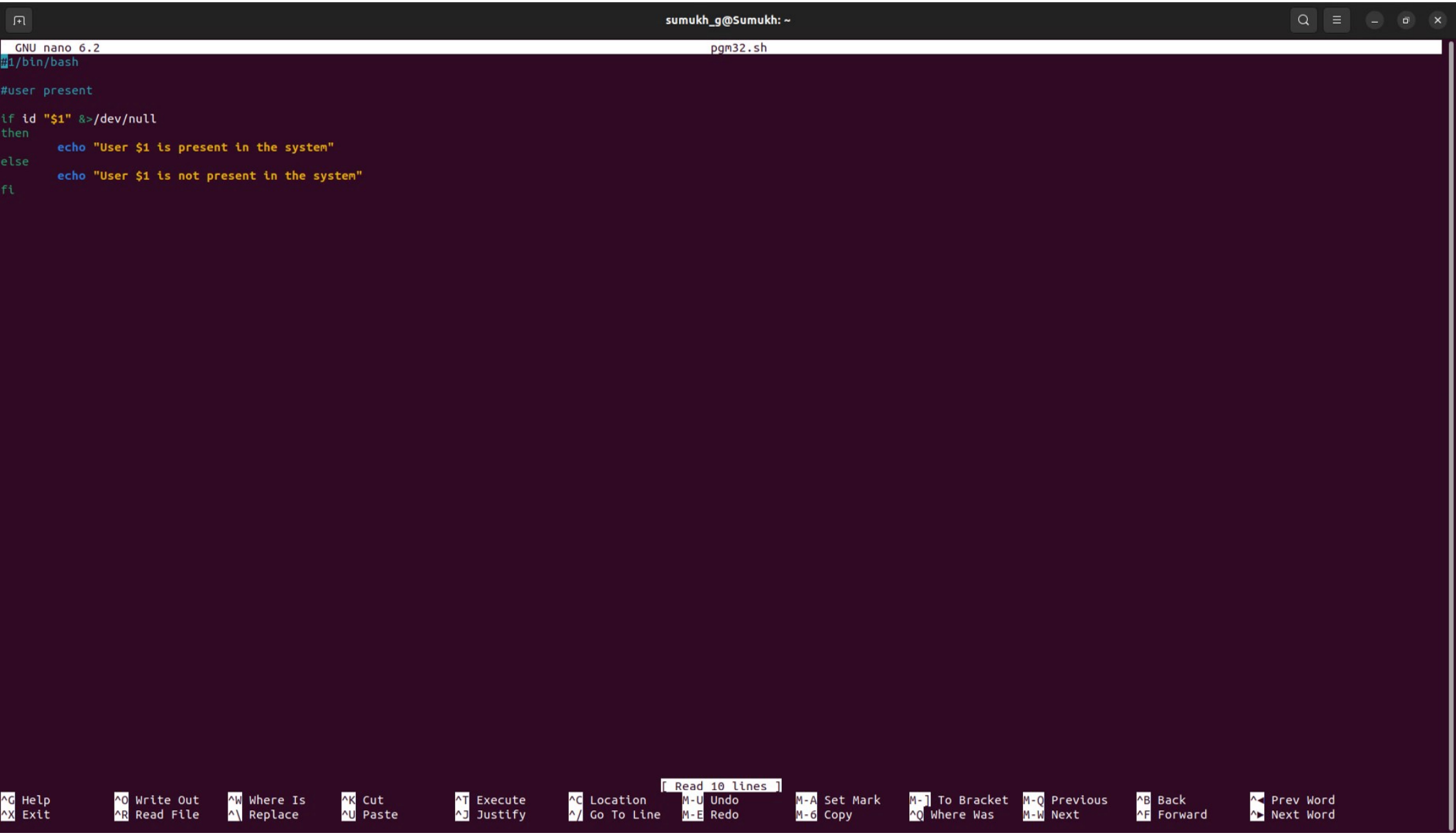

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm2.sh
sumukh_g@Sumukh:~$ ./pgm2.sh
Enter tha value of n:
4
1
23
456
78910
sumukh_g@Sumukh:~$ nano pgm2.sh
sumukh_g@Sumukh:~$ ./pgm2.sh
Enter tha value of n:
4
1
2 3
4 5 6
7 8 9 10
sumukh_g@Sumukh:~$


sumukh_g@Sumukh: ~
GNU nano 6.2 pgm1.sh
#!/bin/bash
#Programme to print pattern
echo "Enter the value of n: "
read num
for((i=1;i<=num;i++))
do
for((j=1;j<=i;j++))
do
echo -n "$j"
done
echo " "
done
[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-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

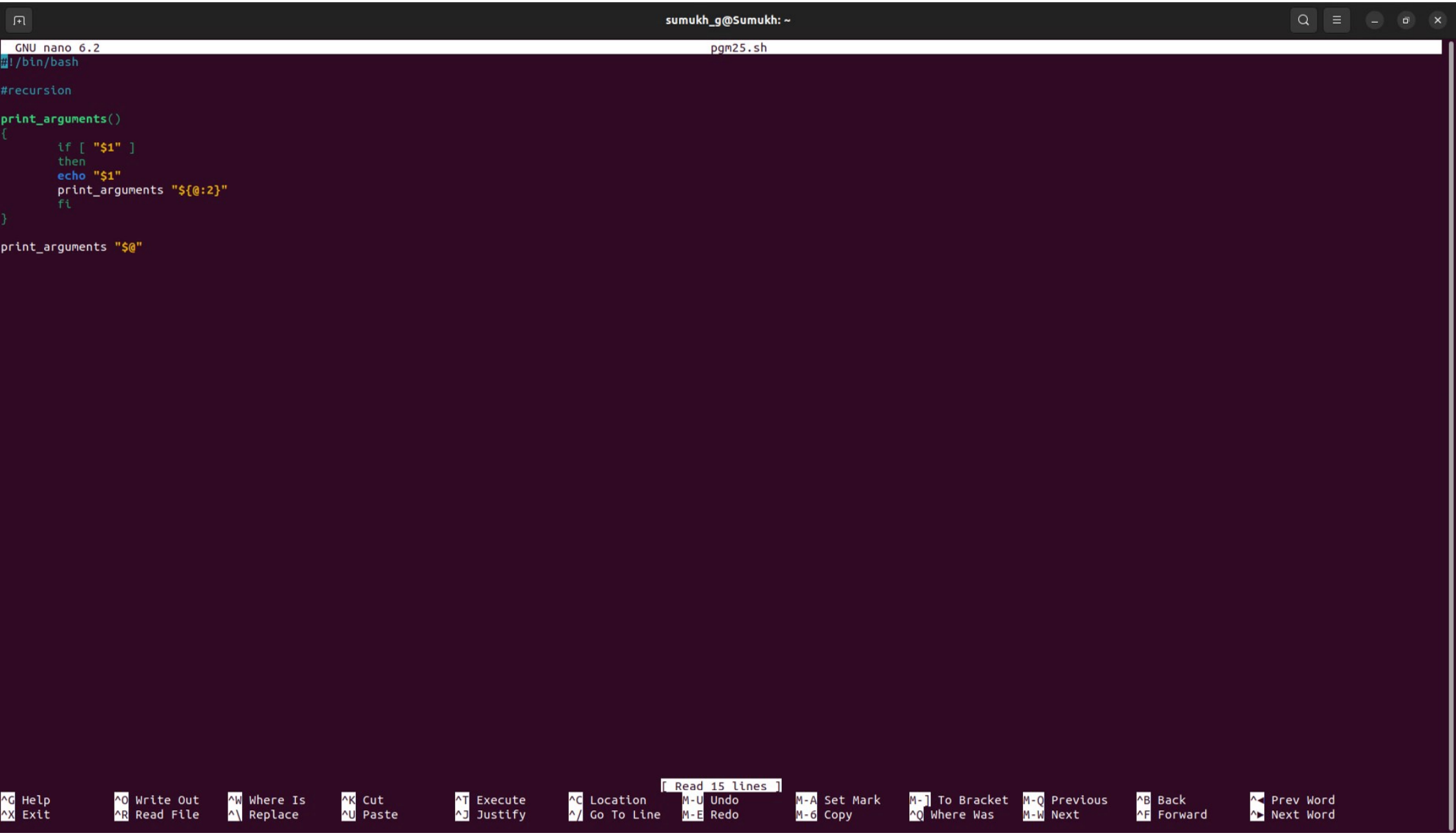

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm1.sh
sumukh_g@Sumukh:~$ ./pgm1.sh
Enter the value of n:
5
1
12
123
1234
12345
sumukh_g@Sumukh:~$ ./pgm1.sh
Enter the value of n:
6
1
12
123
1234
12345
123456
sumukh_g@Sumukh:~$

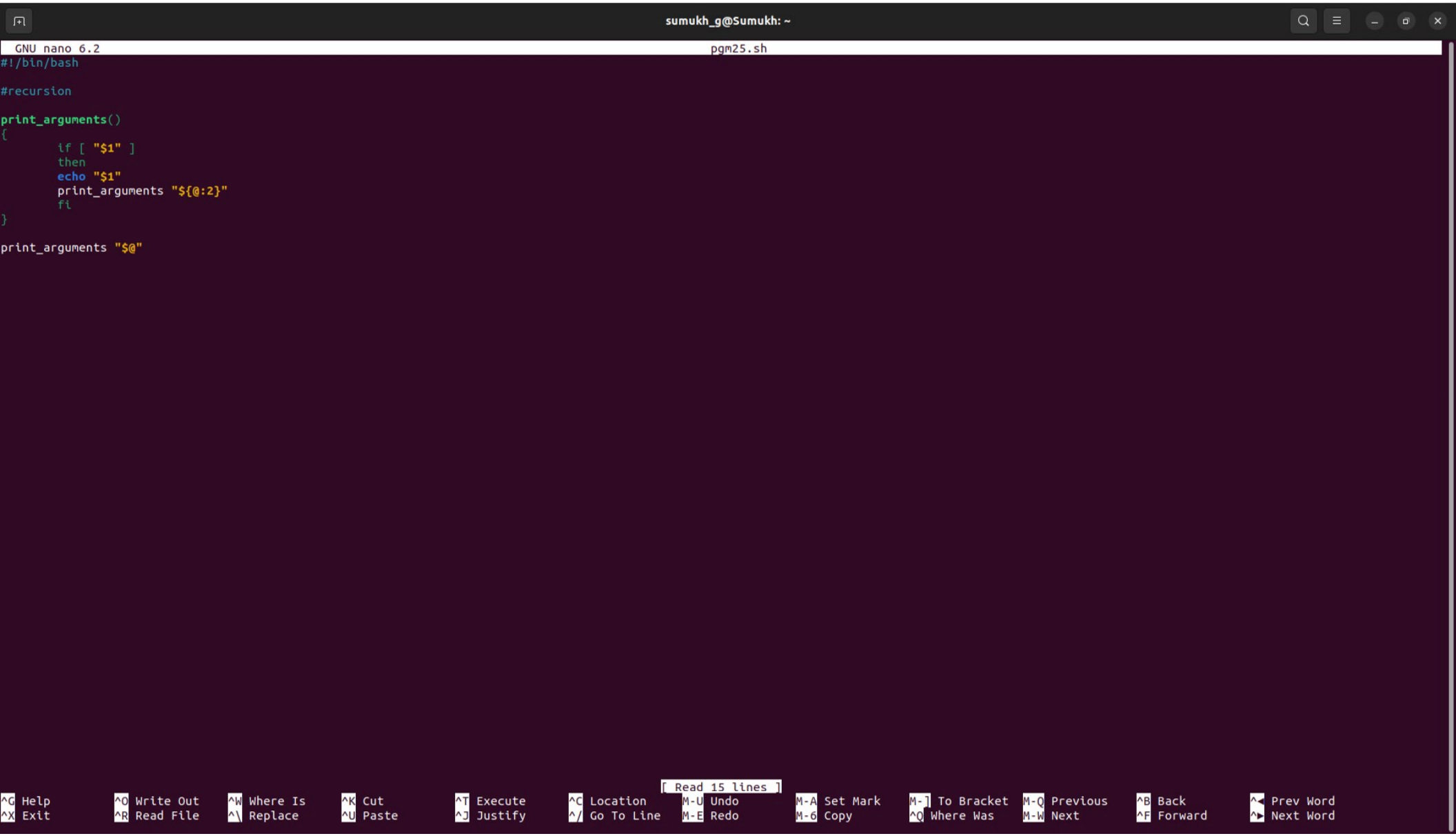

sumukh_g@Sumukh: ~
GNU nano 6.2
pgm34.sh
#!/bin/bash
#bmi
read -p "Enter your weight in kgs:" weight
read -p "Enter your height in meters:" height
bmi=$(echo "scale=2; $weight / ($height * $height)" | bc)
echo "Your BMI is : $bmi"
if (($(echo "$bmi < 18.5" | bc -l)));then
echo "You are underweight"
elif (($(echo "$bmi < 25" | bc -l)));then
echo "You are normal in weight"
elif (($(echo "$bmi < 30" | bc -l)));then
echo "You are overweight"
else
echo "You are obese"
fi
[Read 20 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word

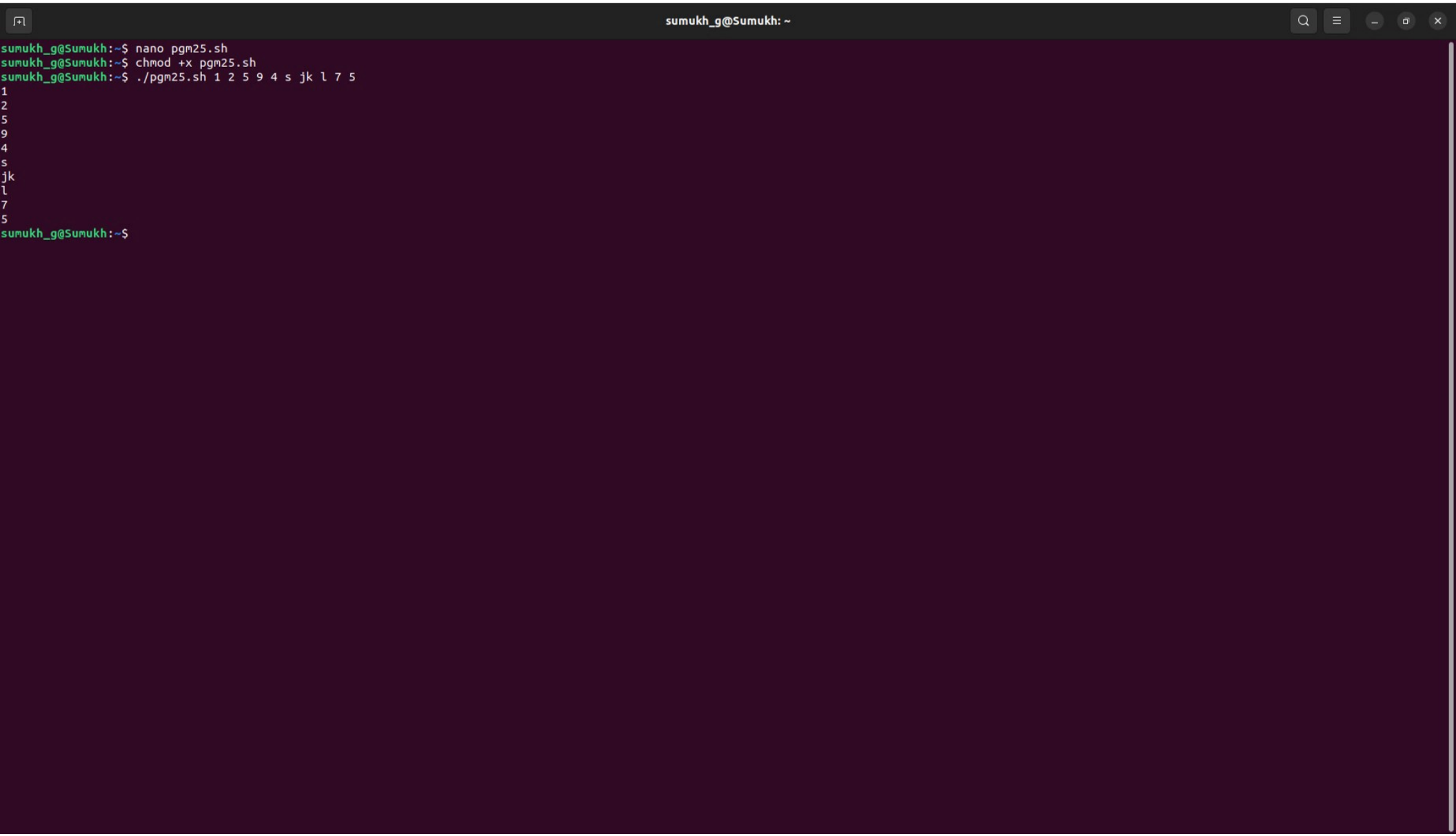

sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm34.sh
sumukh_g@Sumukh:~$ ./pgm34.sh
Enter your weight in kgs:48.2
Enter your height in meters:1.4
Your BMI is : 24.59
You are normal in weight
sumukh_g@Sumukh:~$ ./pgm34.sh
Enter your weight in kgs:50
Enter your height in meters:2
Your BMI is : 12.50
You are underweight
sumukh_g@Sumukh:~$ ./pgm34.sh
Enter your weight in kgs:76
Enter your height in meters:1.2
Your BMI is : 52.77
You are obese
sumukh_g@Sumukh:~$

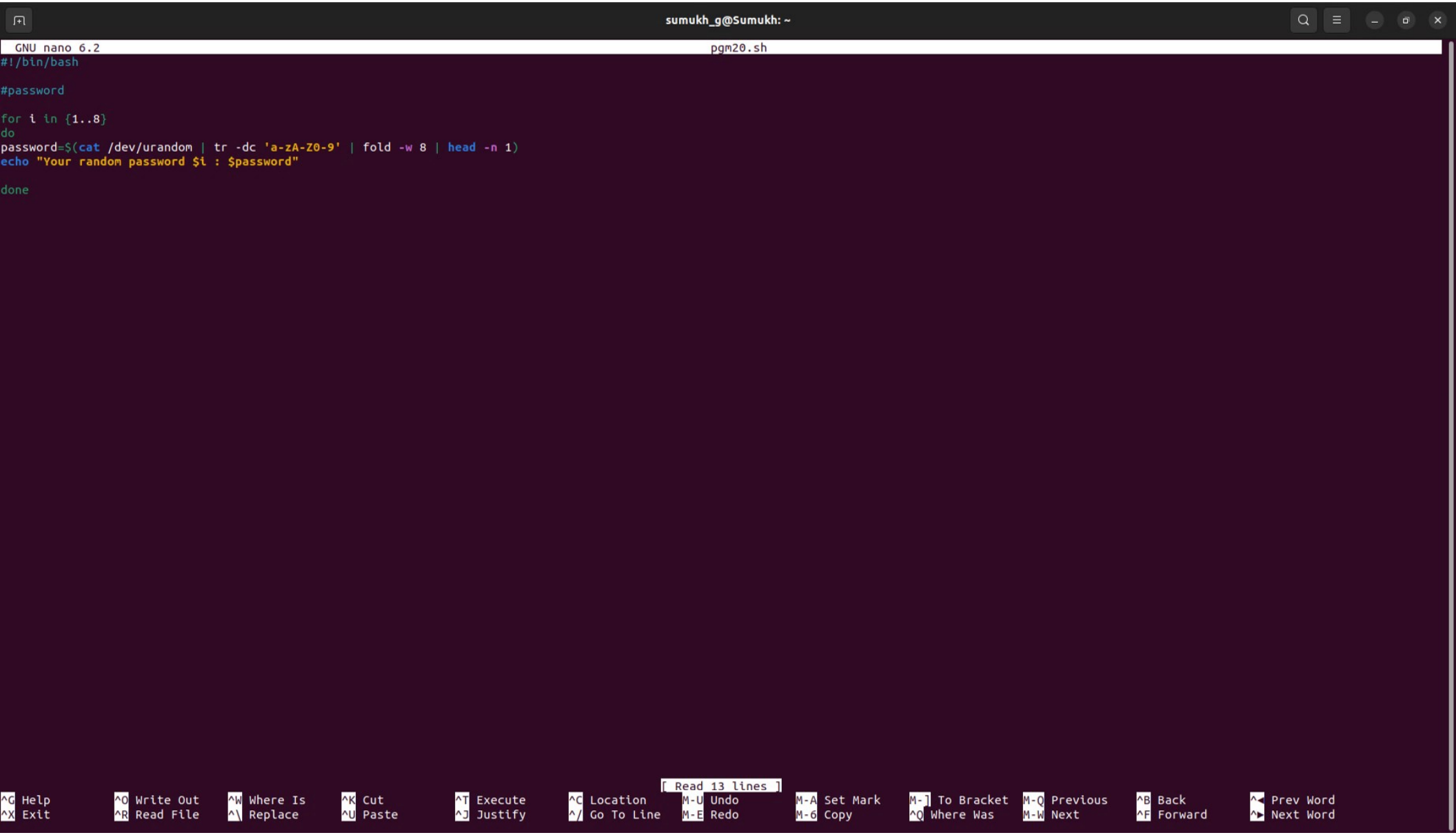

sumukh_g@Sumukh: ~
GNU nano 6.2 pgm32.sh
#1/bin/bash
#user present
if id "$1" &>/dev/null
then
echo "User $1 is present in the system"
else
echo "User $1 is not present in the system"
fi
[Read 10 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word


sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm32.sh
sumukh_g@Sumukh:~$ chmod +x pgm32.sh
sumukh_g@Sumukh:~$ ./pgm32.sh root
User root is present in the system
sumukh_g@Sumukh:~$ ./pgm32.sh sumukh
User sumukh is not present in the system
sumukh_g@Sumukh:~$ ./pgm32.sh dir1
User dir1 is not present in the system
sumukh_g@Sumukh:~$


sumukh_g@Sumukh: ~
GNU nano 6.2 pgm25.sh
#!/bin/bash
#recursion
print_arguments()
{
if ["$1"]
then
echo "$1"
print_arguments "${@:2}"
fi
}
print_arguments "$@"
[Read 15 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word


sumukh_g@Sumukh: ~
GNU nano 6.2 pgm25.sh
#!/bin/bash
#recursion
print_arguments()
{
if ["$1"]
then
echo "$1"
print_arguments "${@:2}"
fi
}
print_arguments "$@"
[Read 15 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word


sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm25.sh
sumukh_g@Sumukh:~$ chmod +x pgm25.sh
sumukh_g@Sumukh:~$ ./pgm25.sh 1 2 5 9 4 s jk l 7 5
1
2
5
9
4
s
jk
l
7
5
sumukh_g@Sumukh:~$


sumukh_g@Sumukh: ~
GNU nano 6.2 pgm20.sh
#!/bin/bash
#password
for i in {1..8}
do
password=$(cat /dev/urandom | tr -dc 'a-zA-Z0-9' | fold -w 8 | head -n 1)
echo "Your random password $i : $password"
done
[Read 13 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark M-] To Bracket M-Q Previous ^B Back ^◀ Prev Word
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was M-W Next ^F Forward ^▶ Next Word


sumukh_g@Sumukh: ~
sumukh_g@Sumukh:~$ nano pgm20.sh
sumukh_g@Sumukh:~$ ./pgm20.sh
Your random password 1 : npLnJCQl
Your random password 2 : 8yvtmPvO
Your random password 3 : Zi8csAJA
Your random password 4 : WQooxgEi
Your random password 5 : gNEvnGrn
Your random password 6 : 8hotjJMF
Your random password 7 : et70fcqw
Your random password 8 : ll4smVIY
sumukh_g@Sumukh:~$