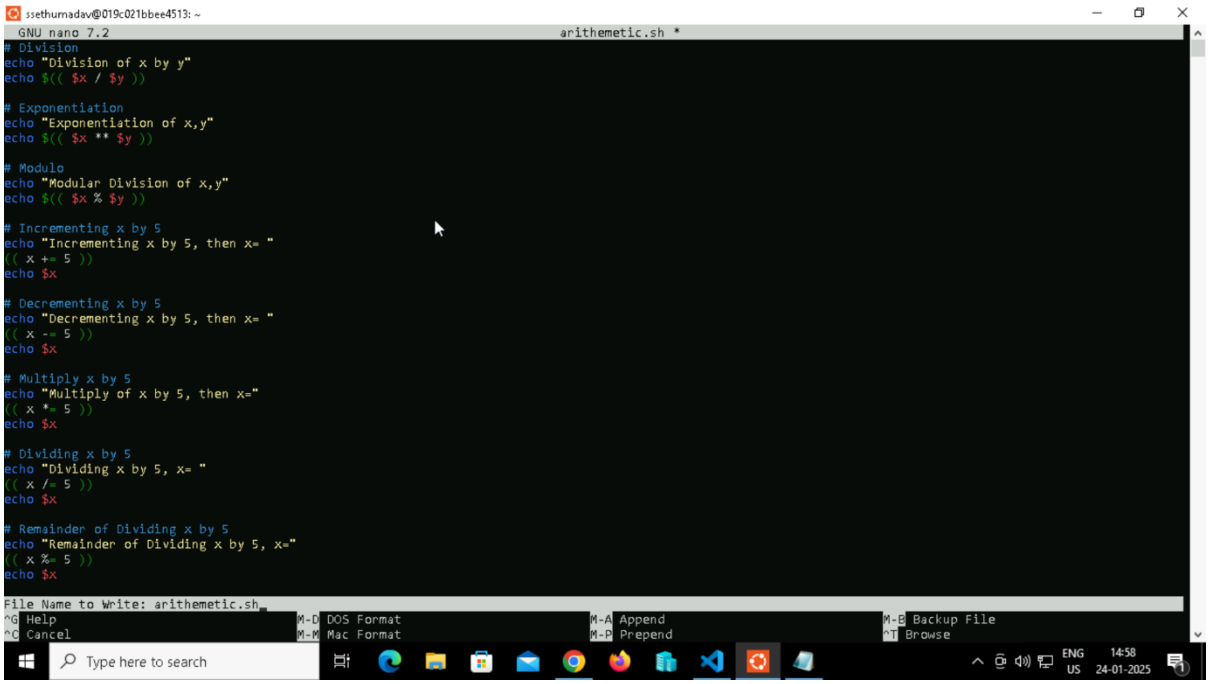
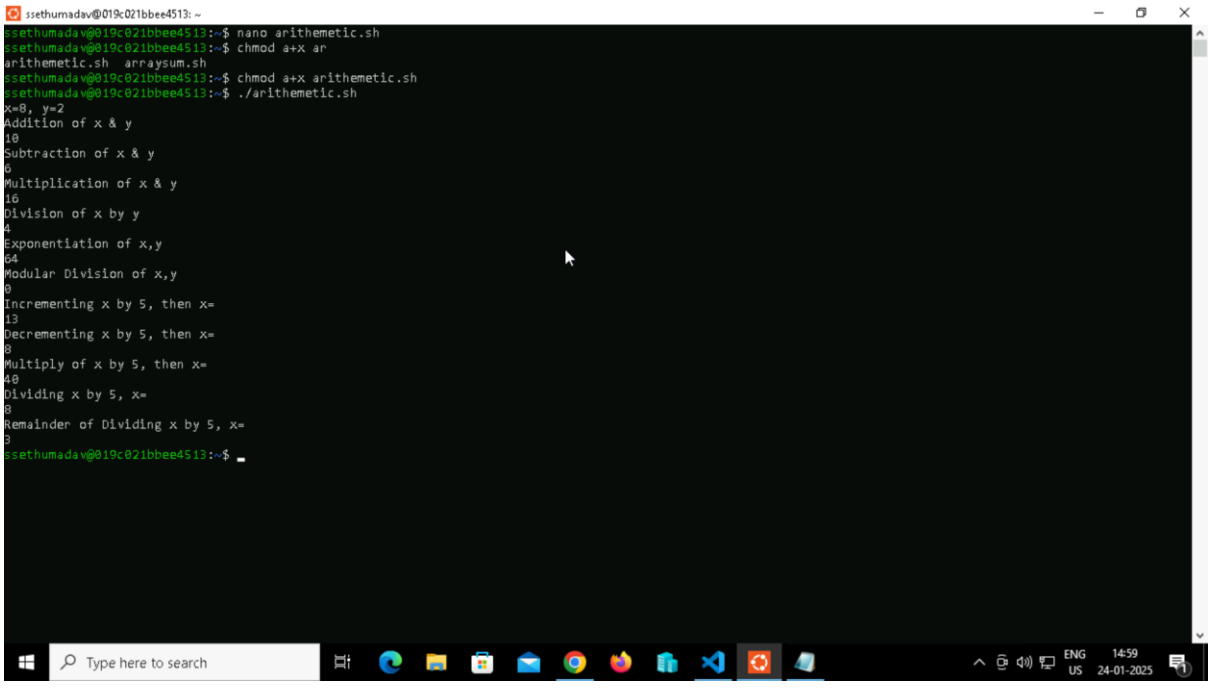
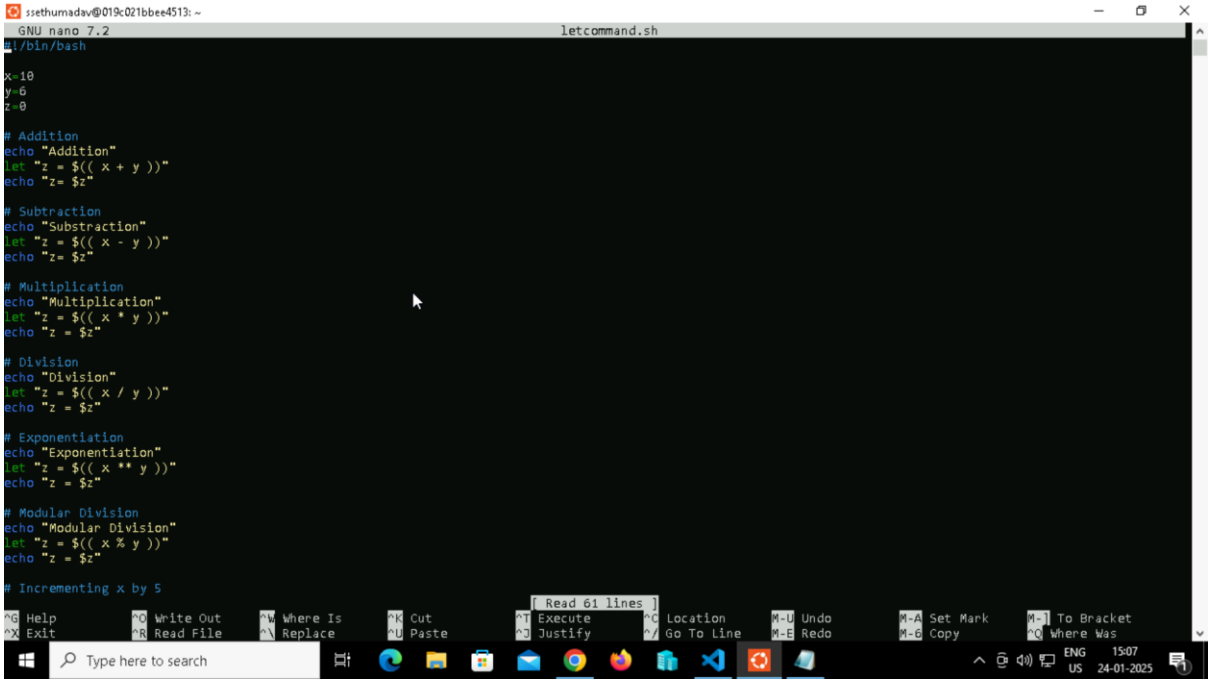
Arithemetic operations using Bash:

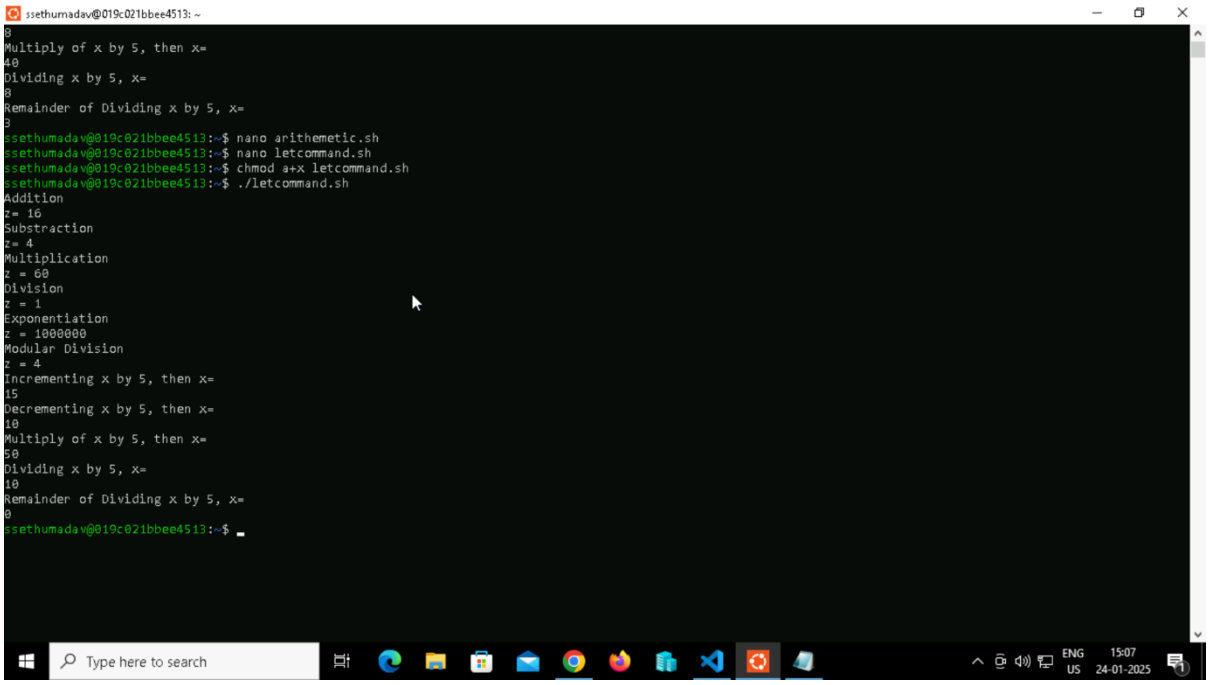


:

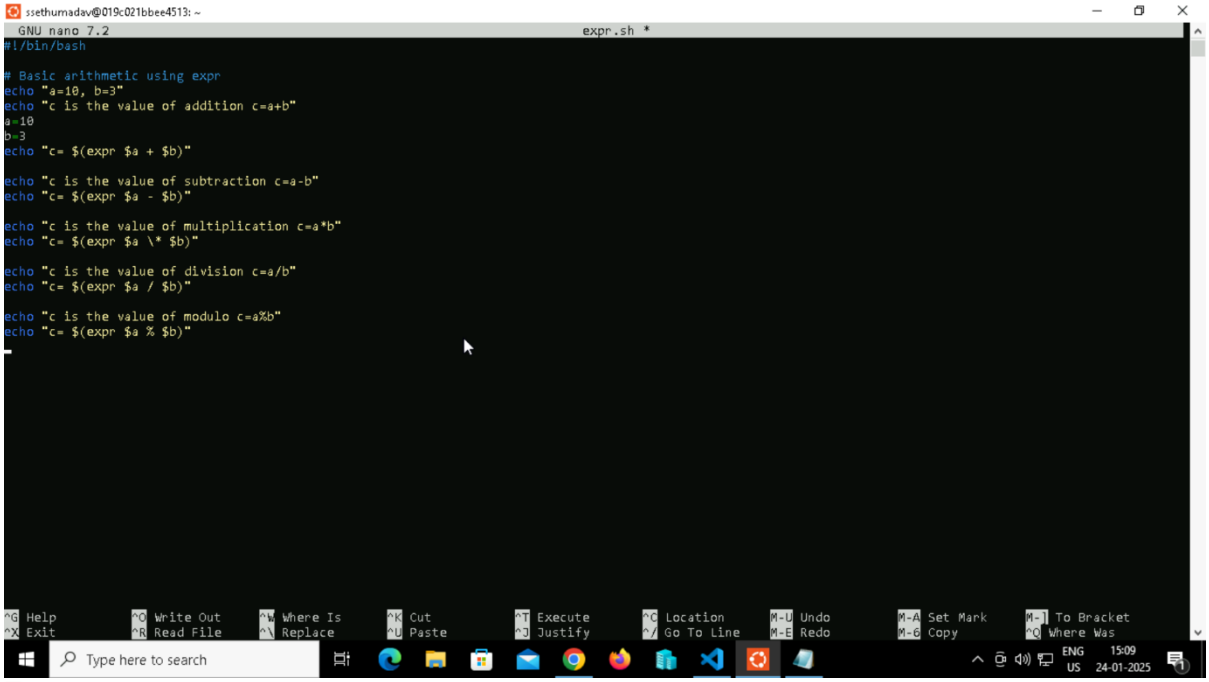


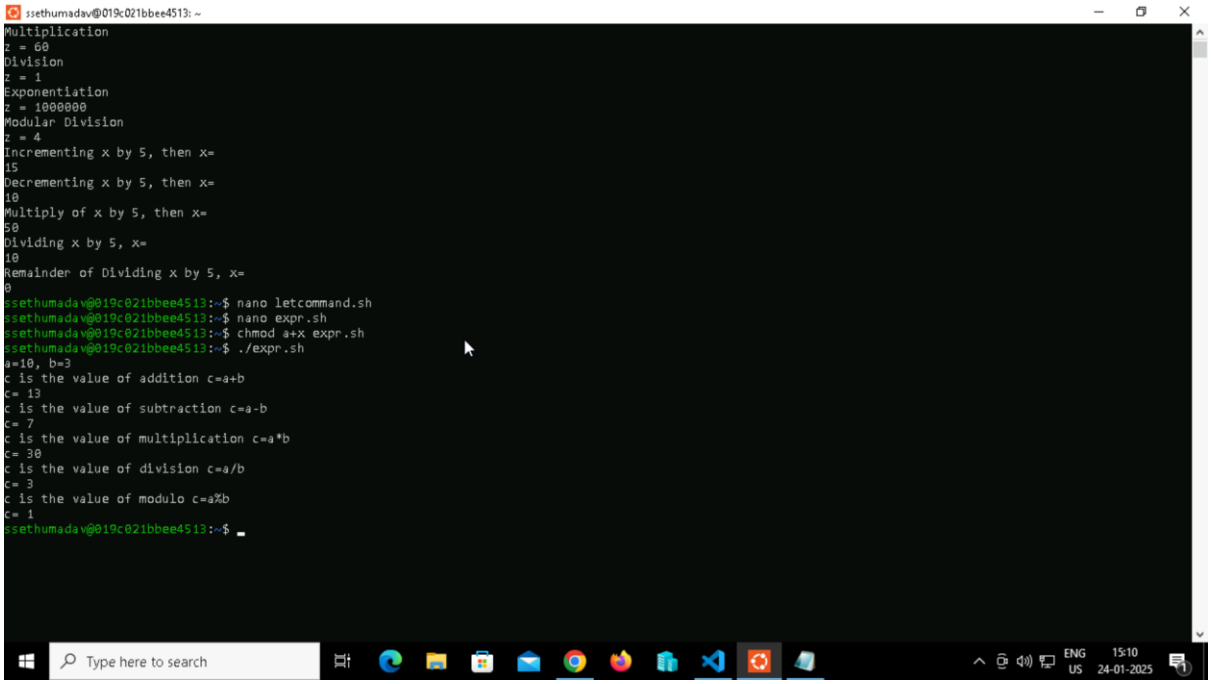
Let command:


ssethumadav@019c021bbee4513: ~
GNU nano 7.2
letcommand.sh
#!/bin/bash
x=10
y=6
z=0
# Addition
echo "Addition"
Let "z = $((x + y))"
echo "z= $z"
Subtraction
echo "Substraction"
Let "z = $((x - y))"
echo "z= $z"
Multiplication
echo "Multiplication"
Let "z = $((x * y))"
echo "z = $z"
Division
echo "Division"
Let "z = $((x / y))"
echo "z = $z"
Exponentiation
echo "Exponentiation"
Let "z = $((x ** y))"
echo "z = $z"
Modular Division
echo "Modular Division"
Let "z = $((x % y))"
echo "z = $z"
Incrementing x by 5
[Read 61 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
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was
Type here to search
ENG US
15:07
24-01-2025

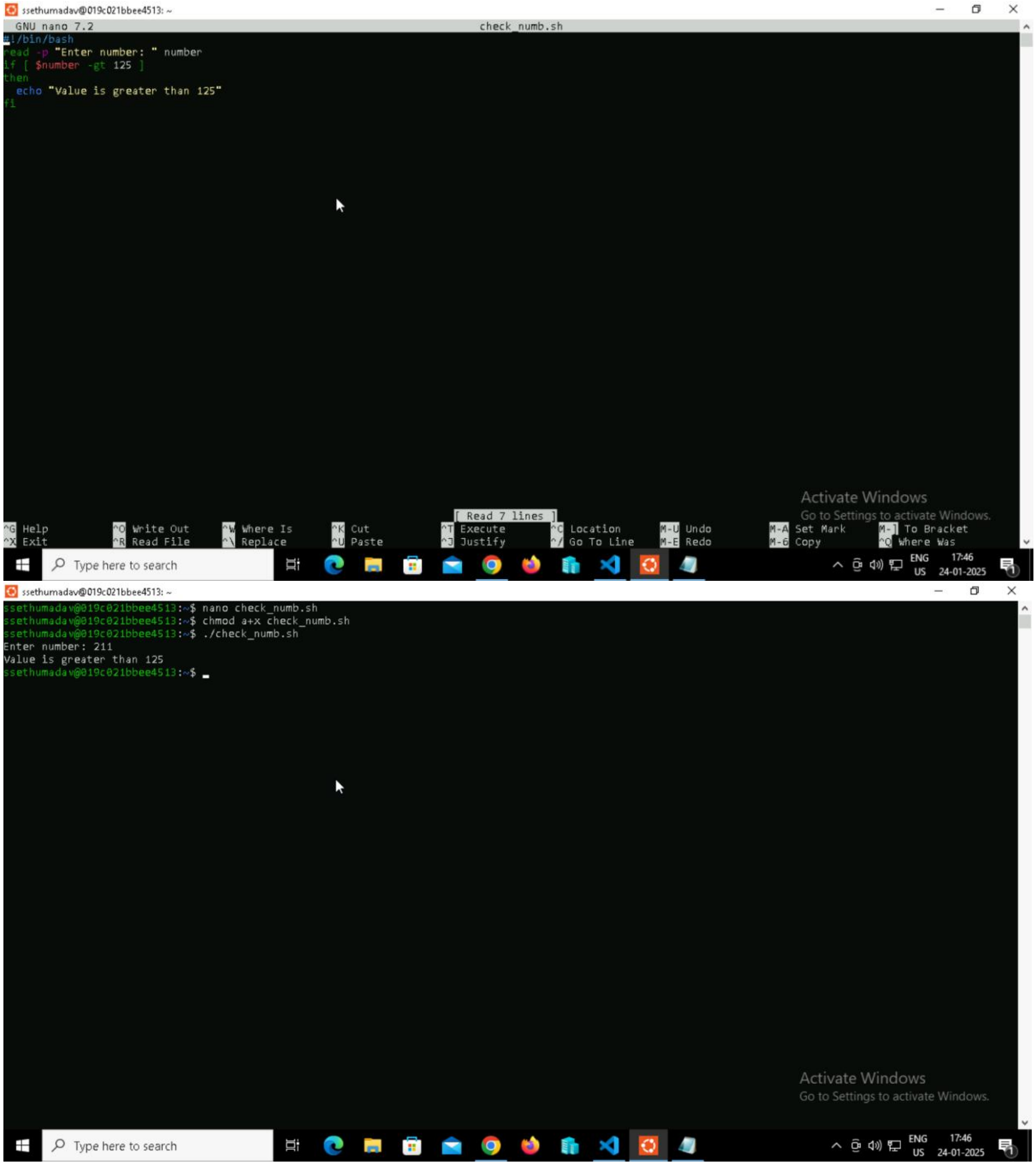

ssethumadav@019c021bbee4513: ~
8
Multiply of x by 5, then x=
40
Dividing x by 5, x=
8
Remainder of Dividing x by 5, x=
3
ssethumadav@019c021bbee4513:~$ nano arithemetic.sh
ssethumadav@019c021bbee4513:~$ nano letcommand.sh
ssethumadav@019c021bbee4513:~$ chmod a+x letcommand.sh
ssethumadav@019c021bbee4513:~$ ./letcommand.sh
Addition
z= 16
Substraction
z= 4
Multiplication
z = 60
Division
z = 1
Exponentiation
z = 1000000
Modular Division
z = 4
Incrementing x by 5, then x=
15
Decrementing x by 5, then x=
10
Multiply of x by 5, then x=
50
Dividing x by 5, x=
10
Remainder of Dividing x by 5, x=
0
ssethumadav@019c021bbee4513:~$
Type here to search
ENG US
15:07
24-01-2025

Expr command:

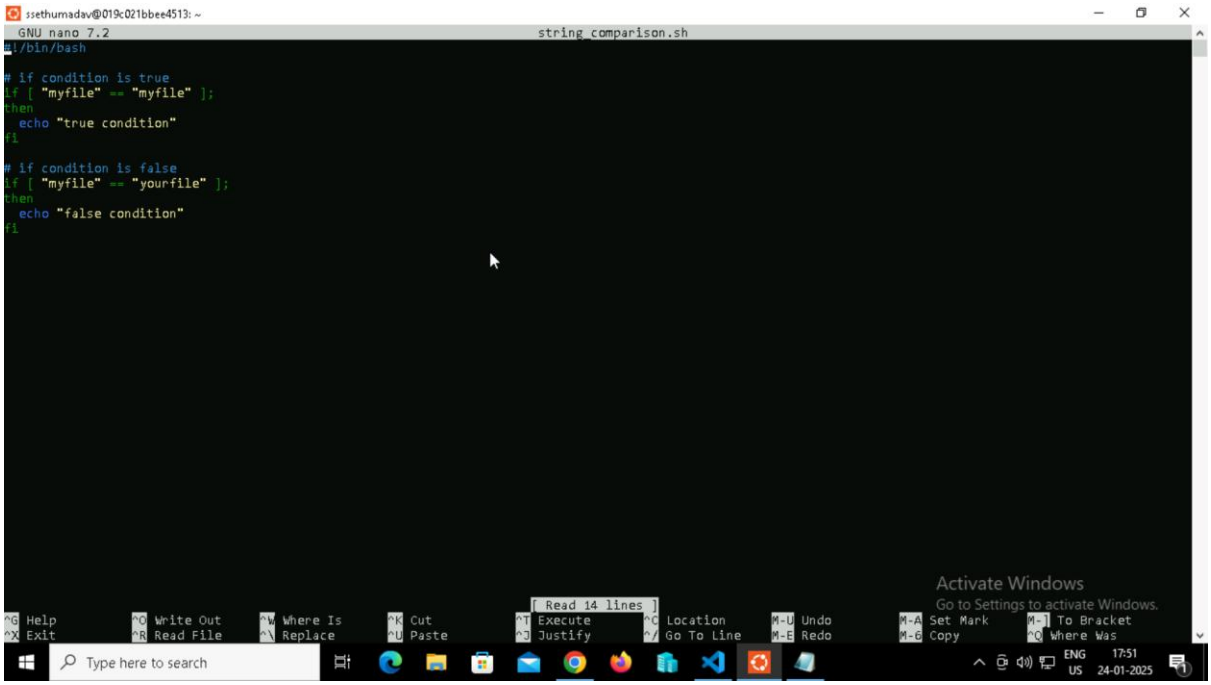


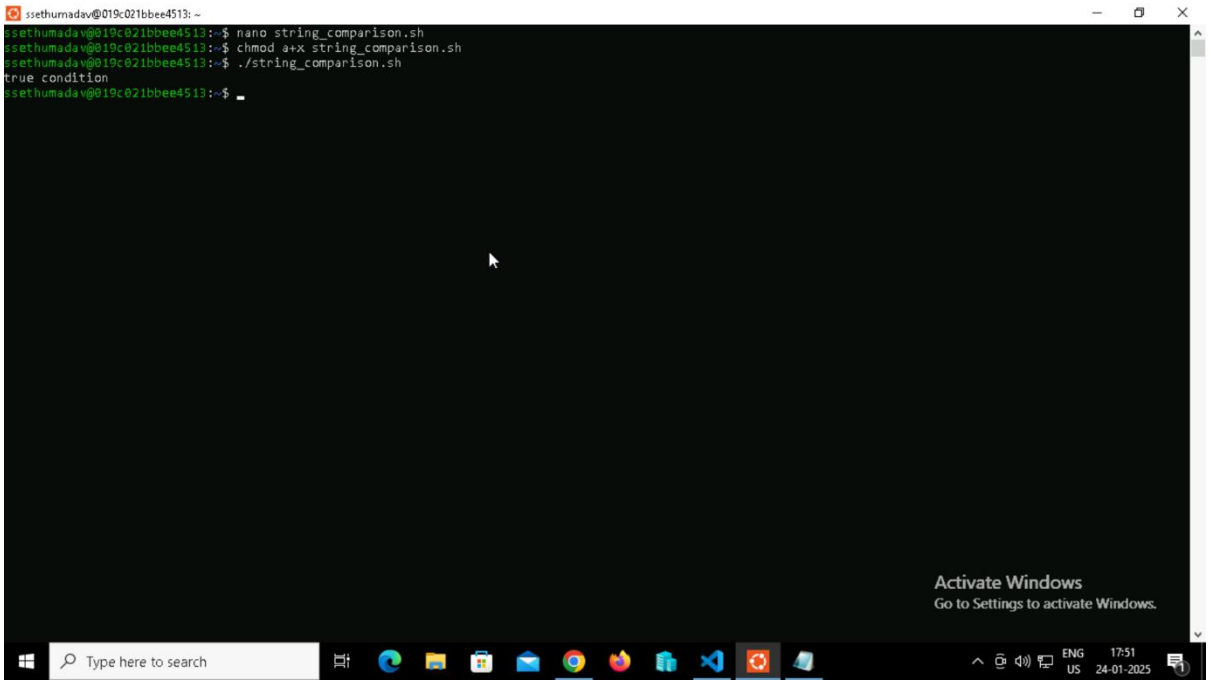


1.Check nano: (to check a number greater than 125)

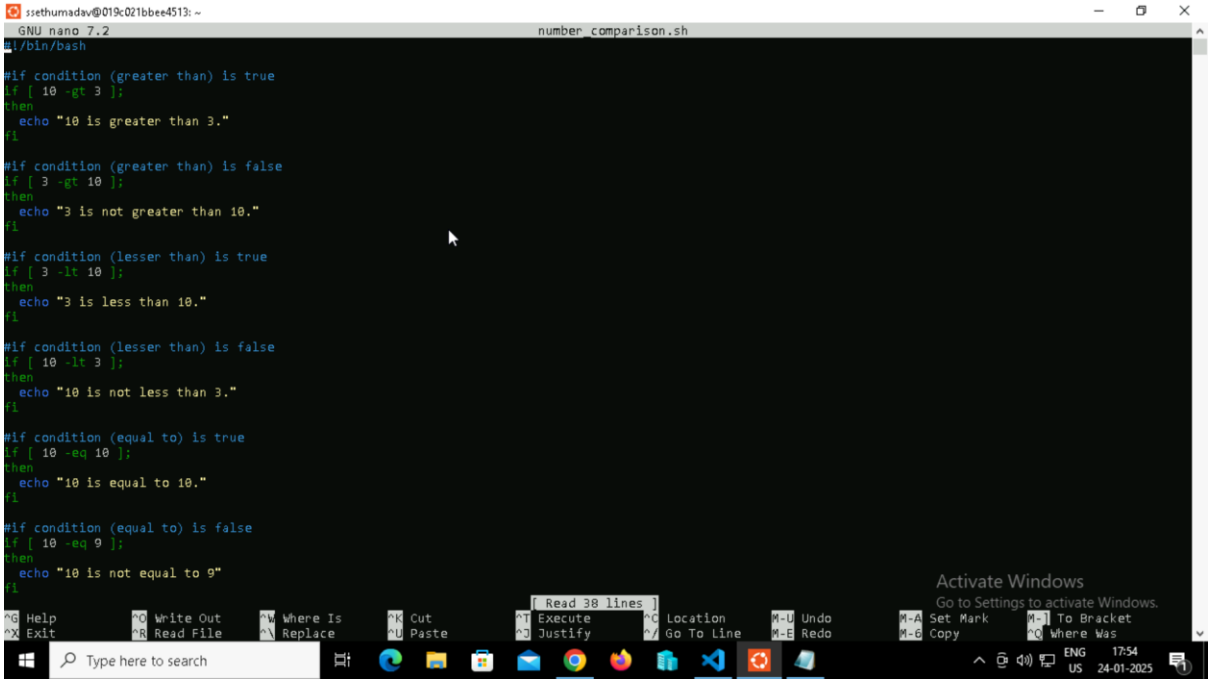


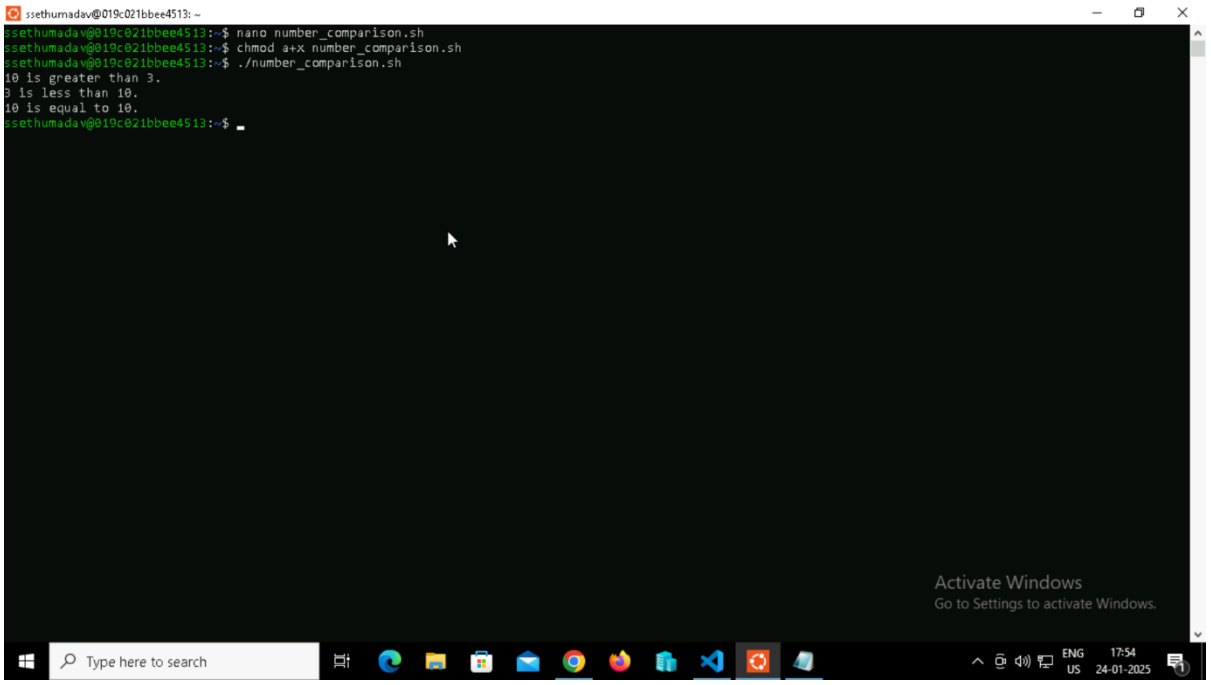
2.String comparison:



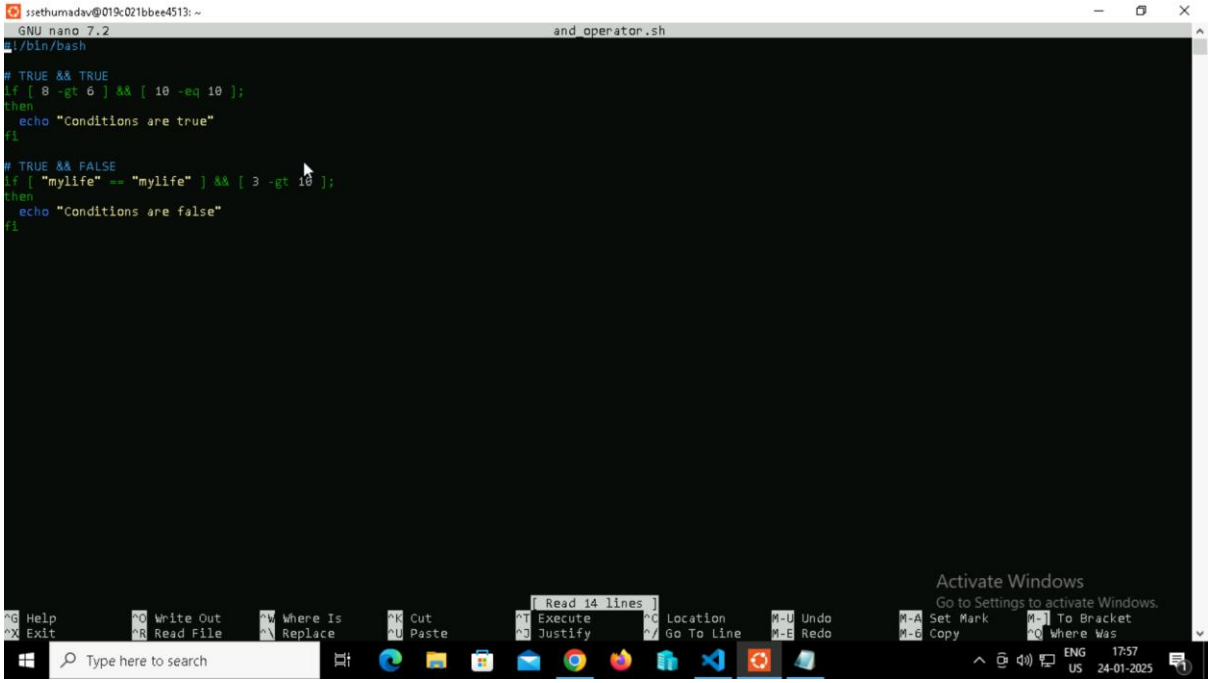


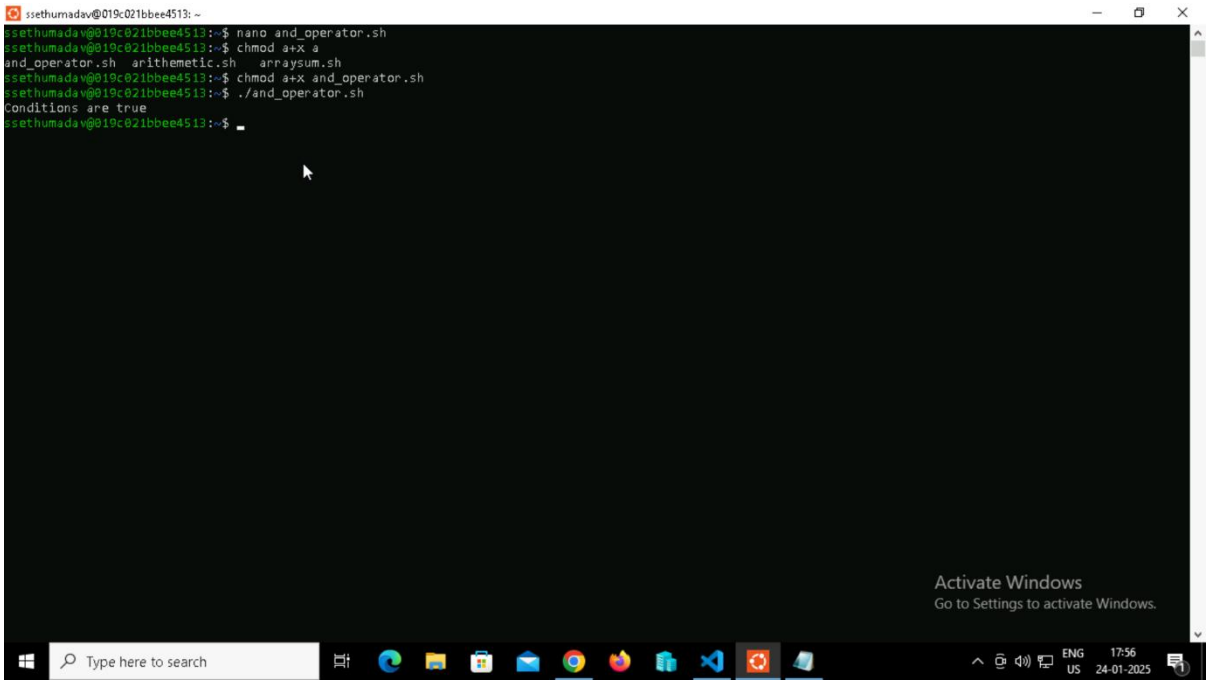
3.Number Comparison:



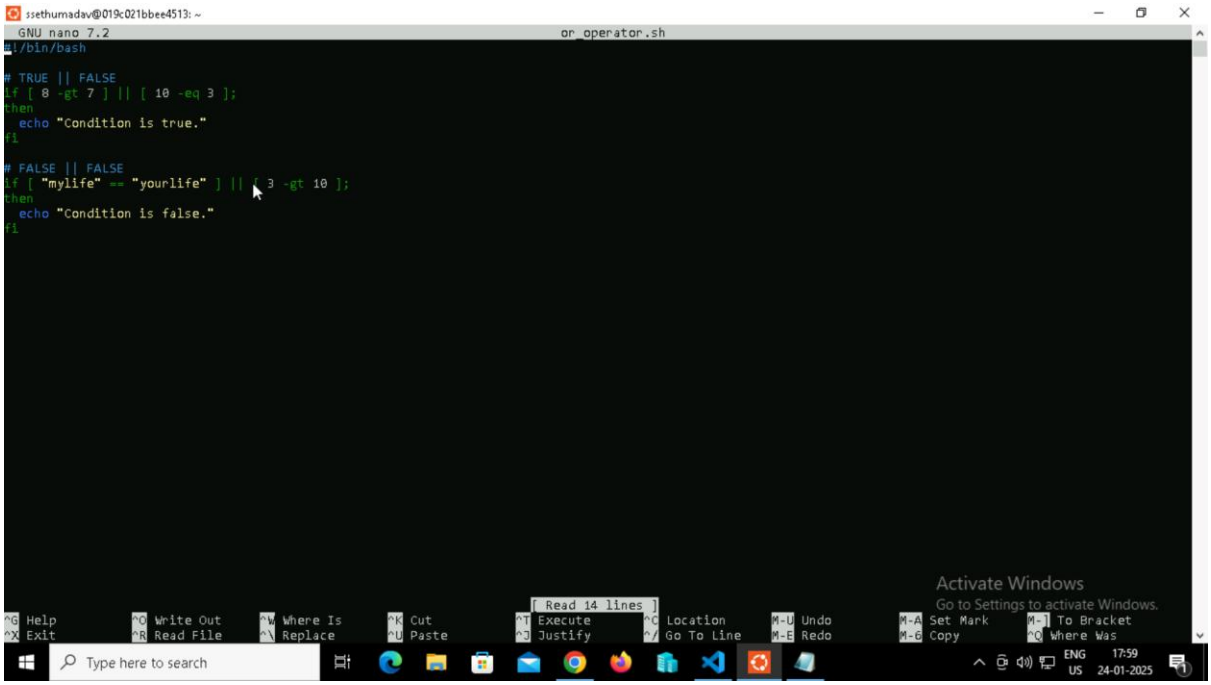


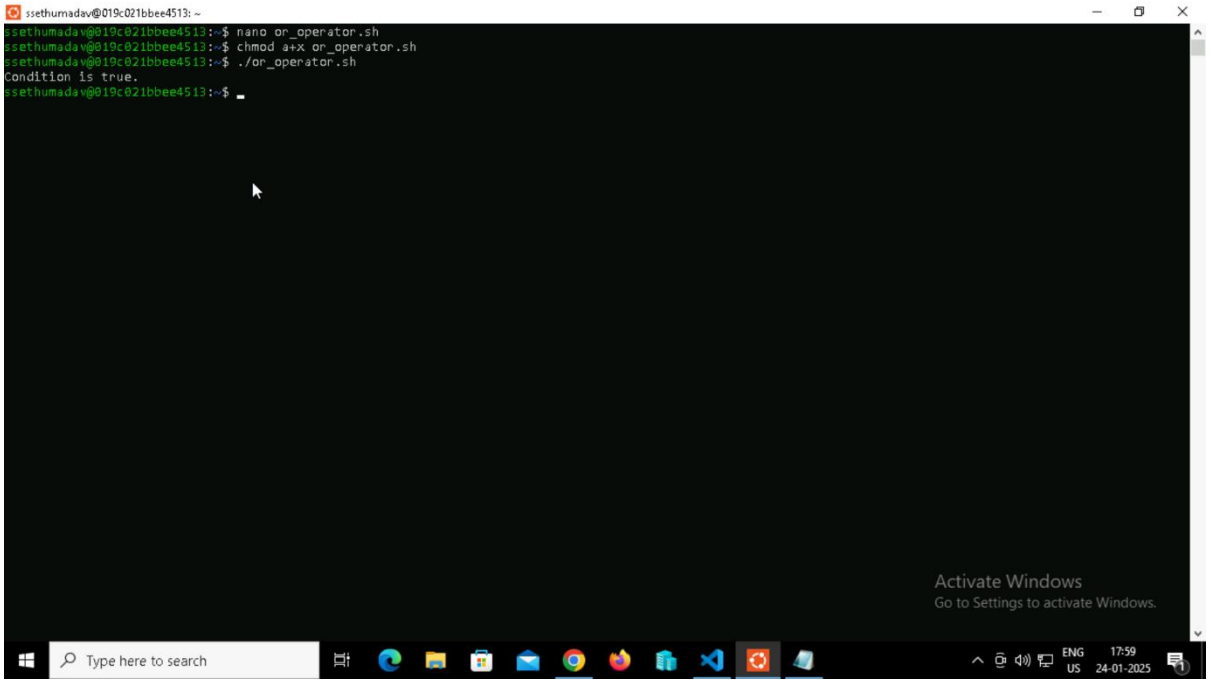
4.Using and operator:



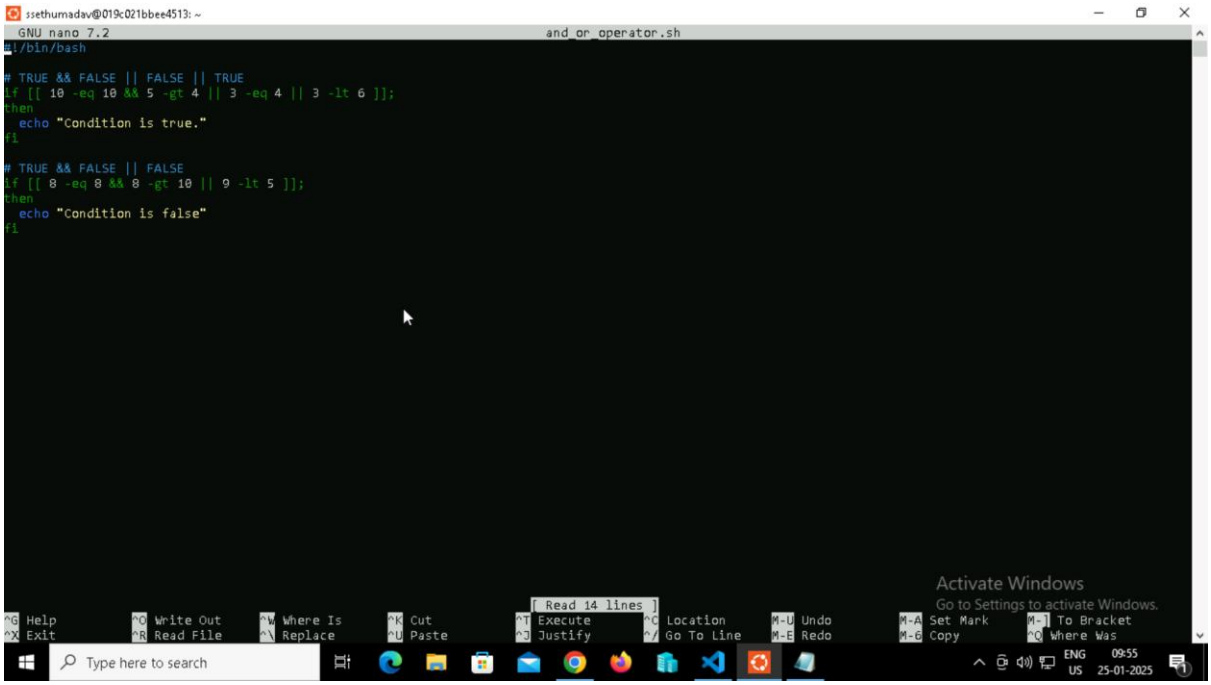


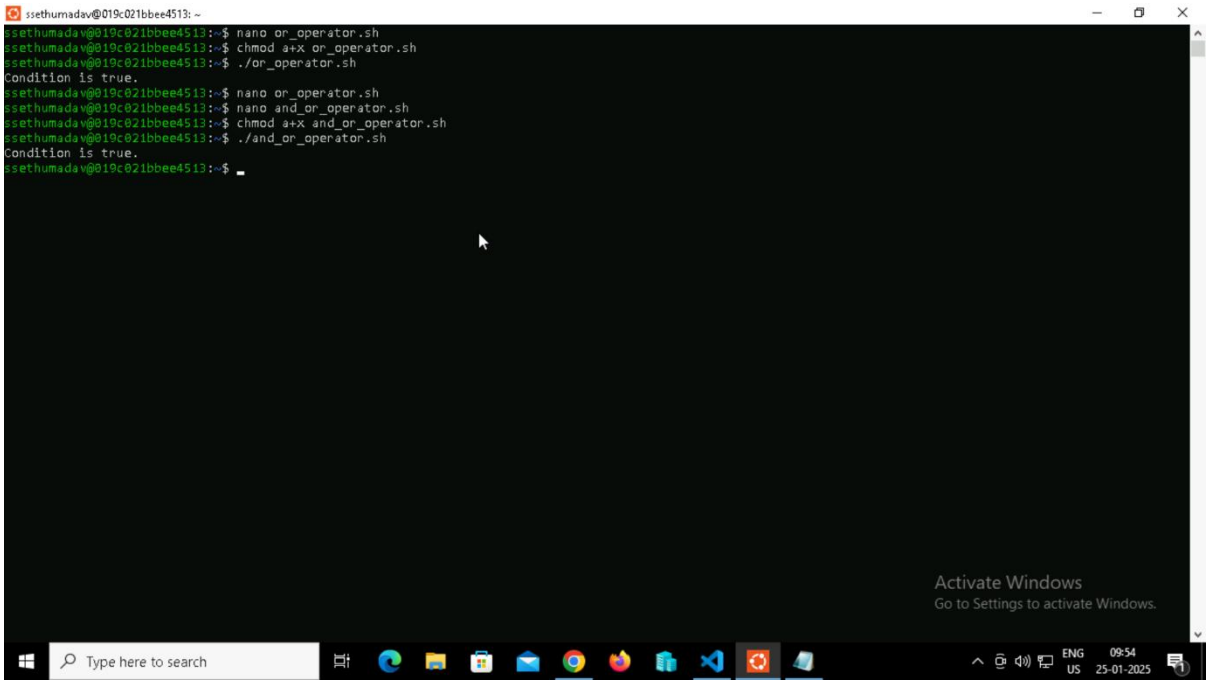
5.Using Or operator:



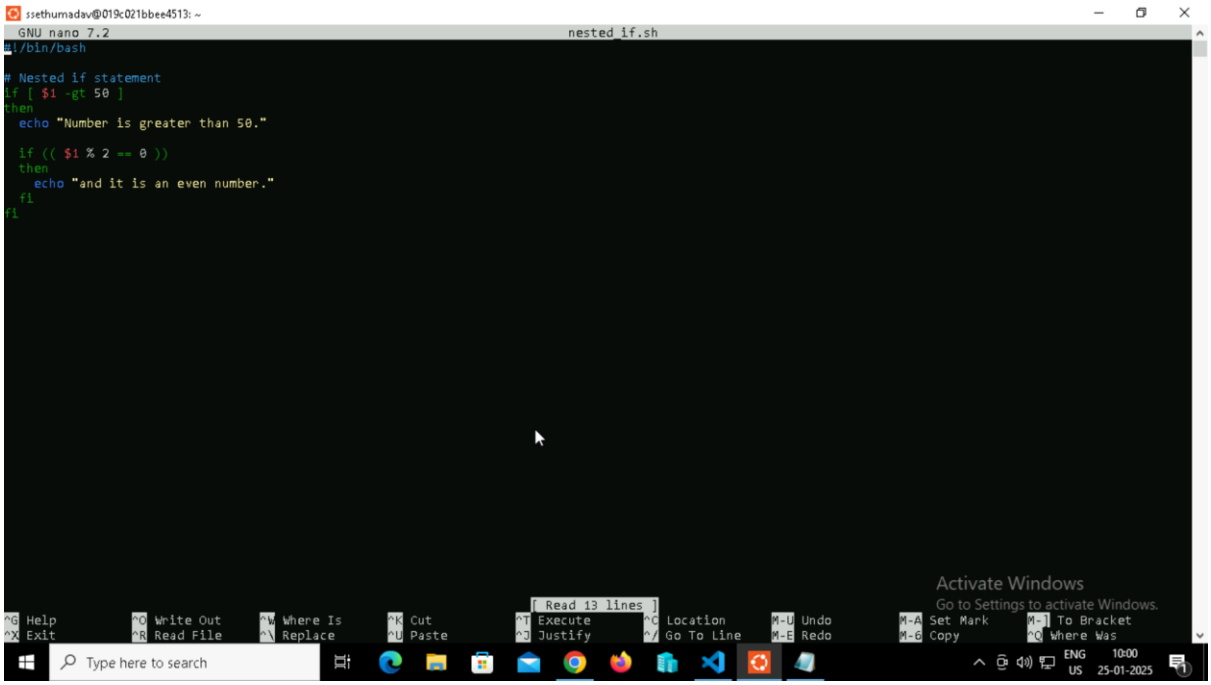


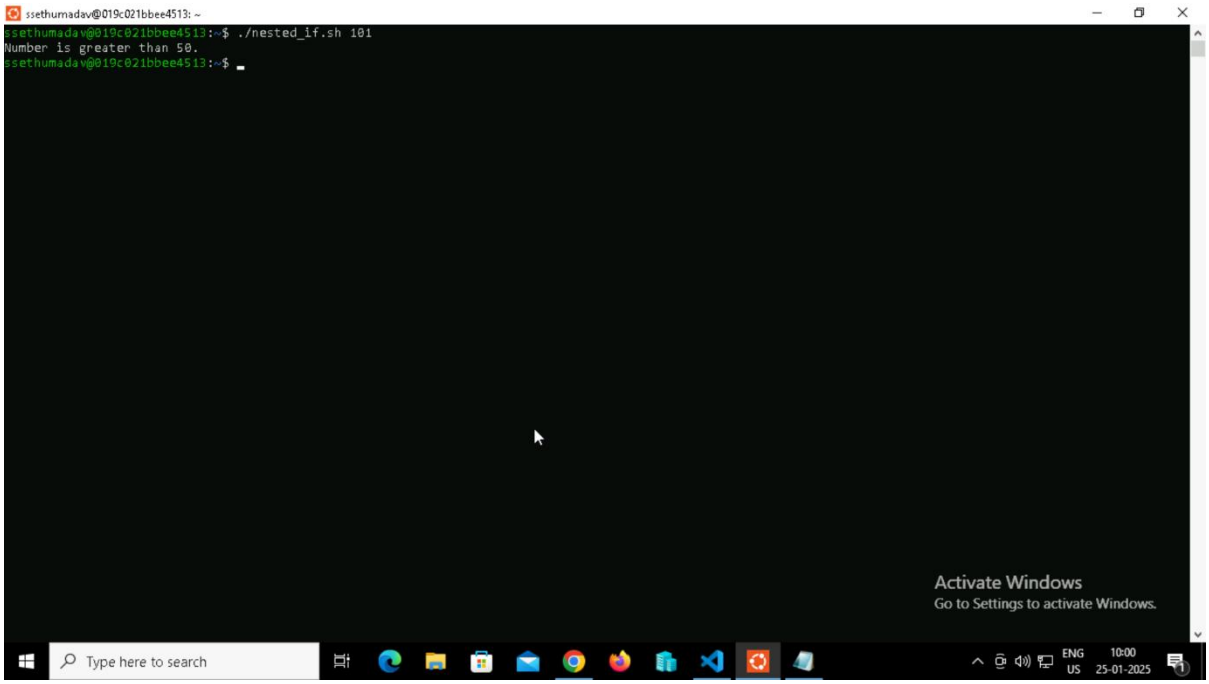
6.and_or_operator:



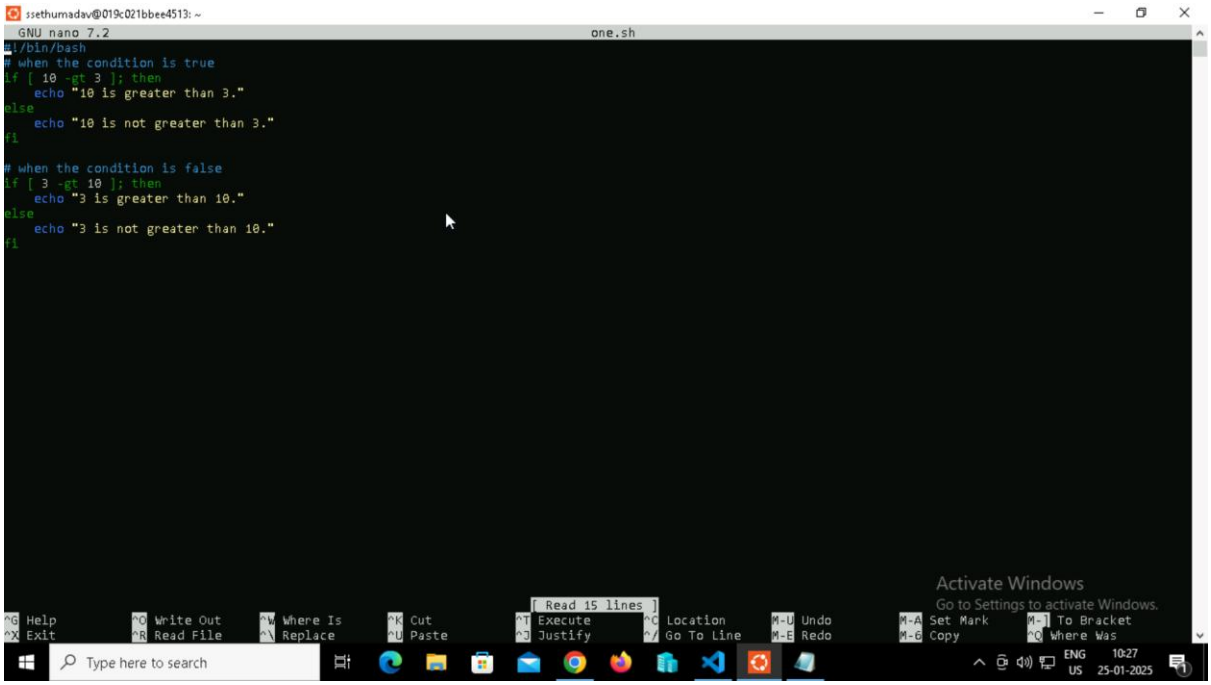


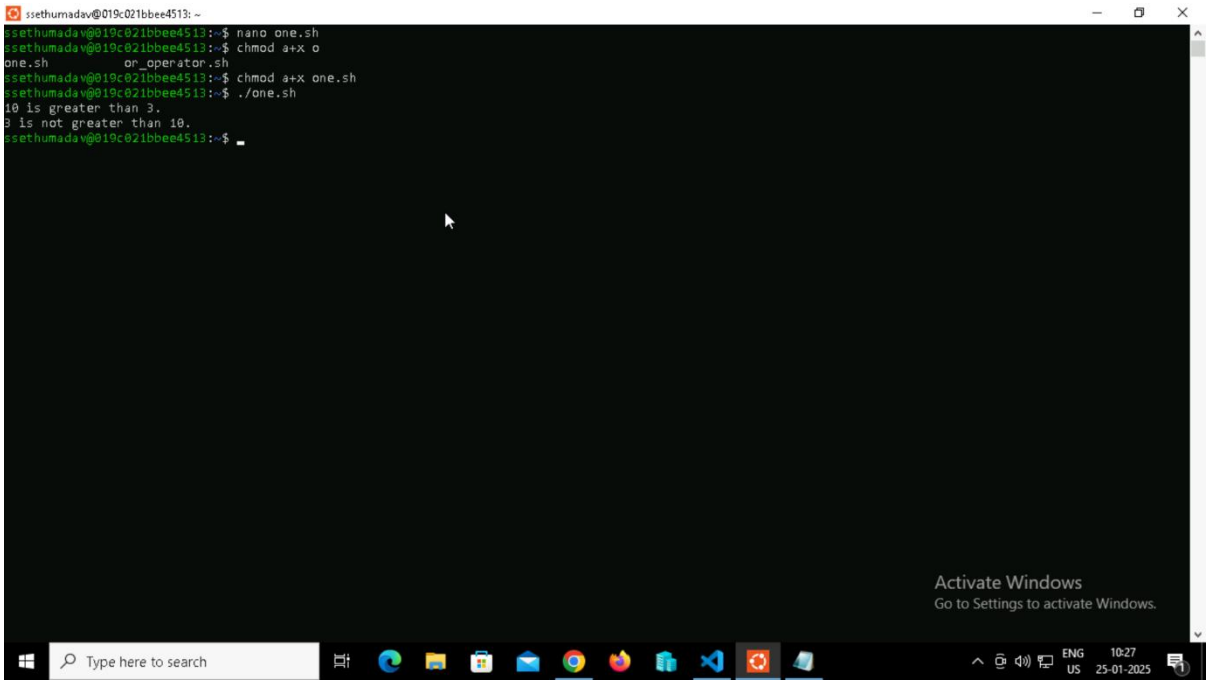
7.Nested_If:


ssethumadav@019c021bbee4513: ~
GNU nano 7.2
nested_if.sh
#!/bin/bash
Nested if statement
if [$1 -gt 50]
then
echo "Number is greater than 50."
if (($1 % 2 == 0))
then
echo "and it is an even number."
fi
fi
[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
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy ^Q Where Was
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
10:00
25-01-2025

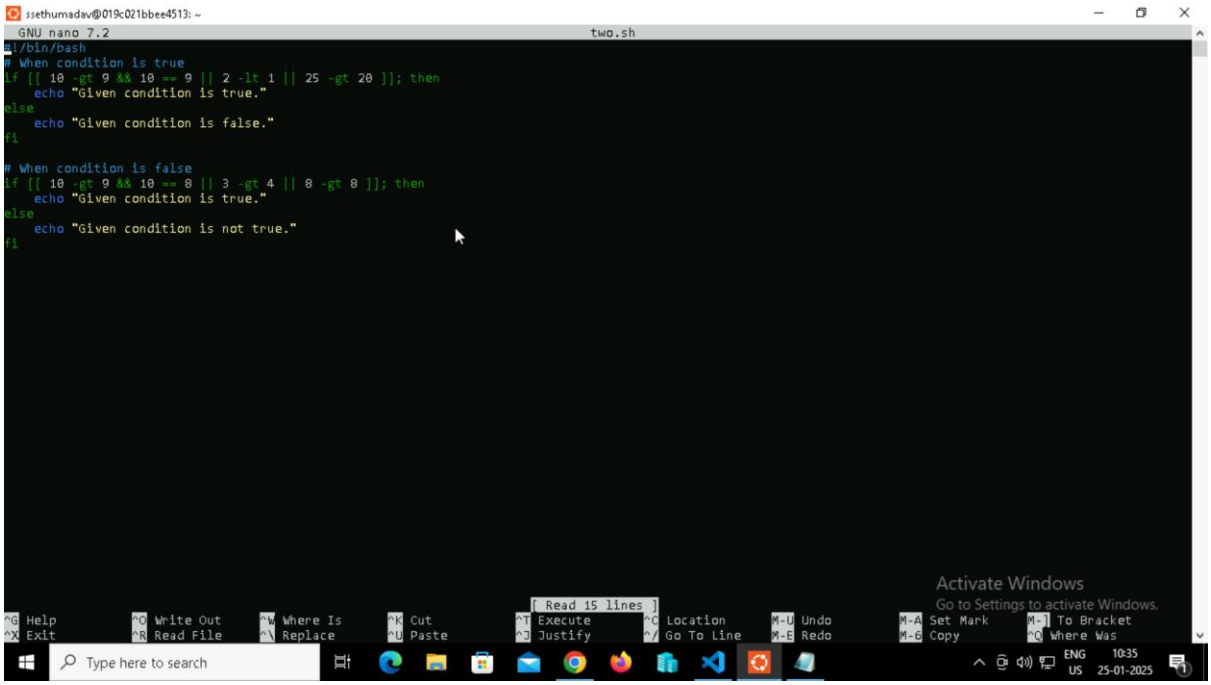

ssethumadav@019c021bbee4513: ~
ssethumadav@019c021bbee4513:~$ ./nested_if.sh 101
Number is greater than 50.
ssethumadav@019c021bbee4513:~$
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
US
10:00
25-01-2025

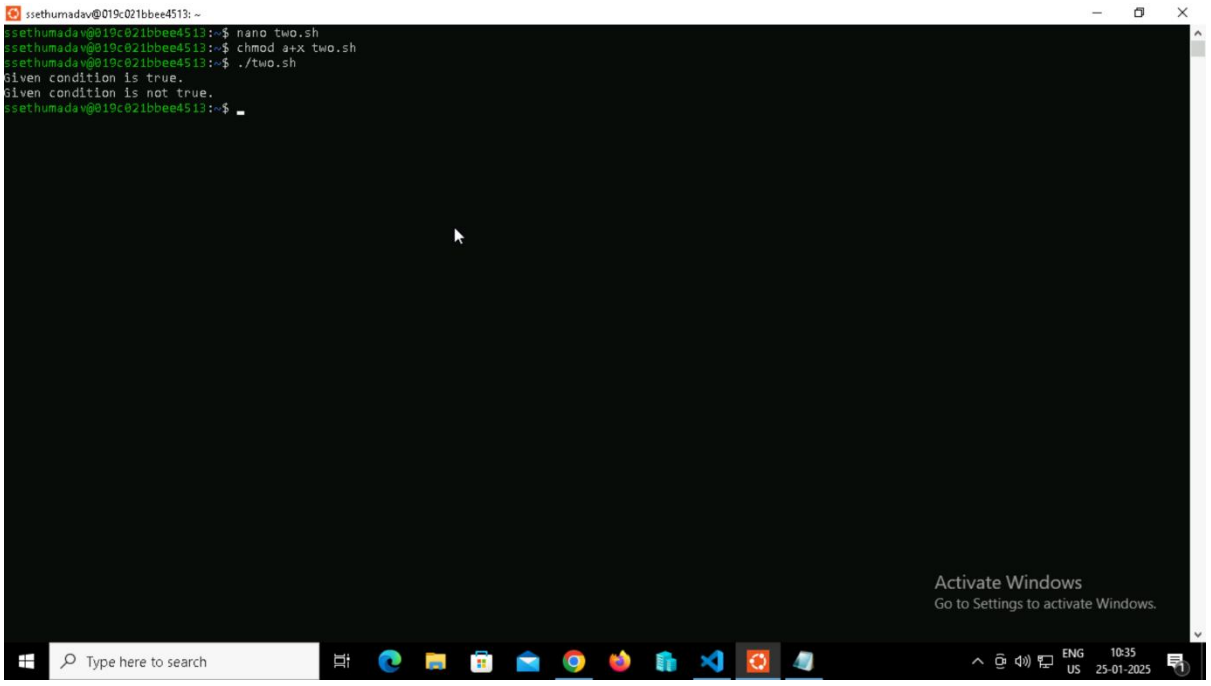
Example 1: (simple if)



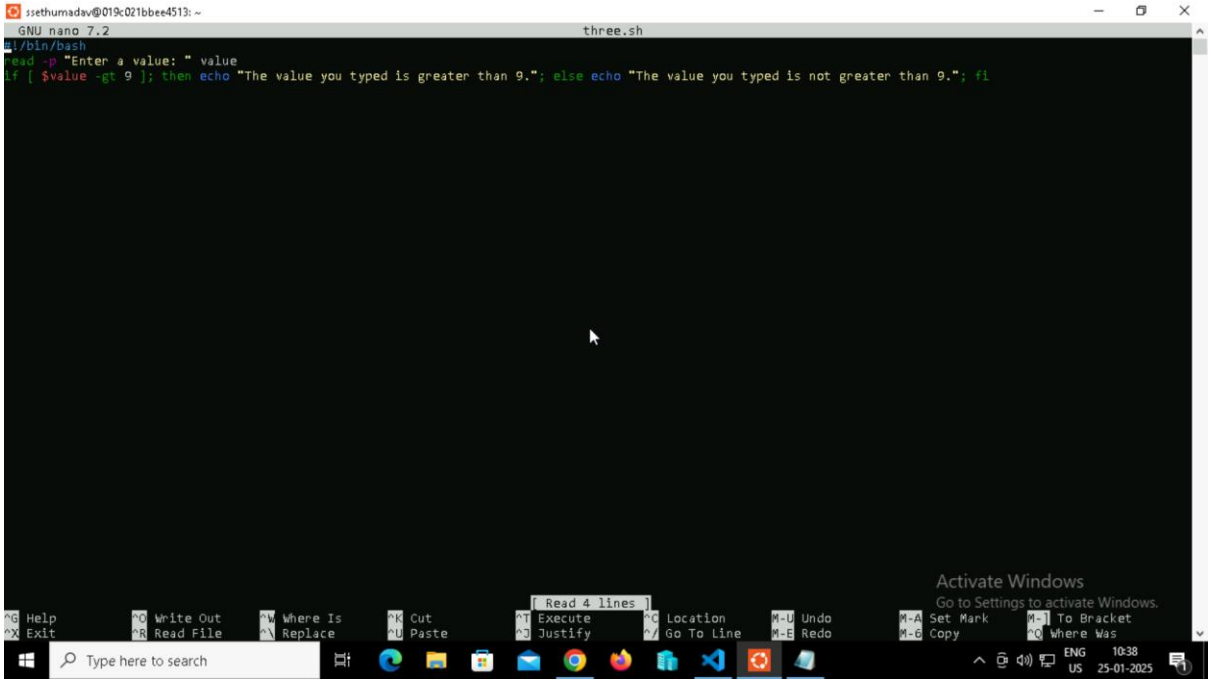


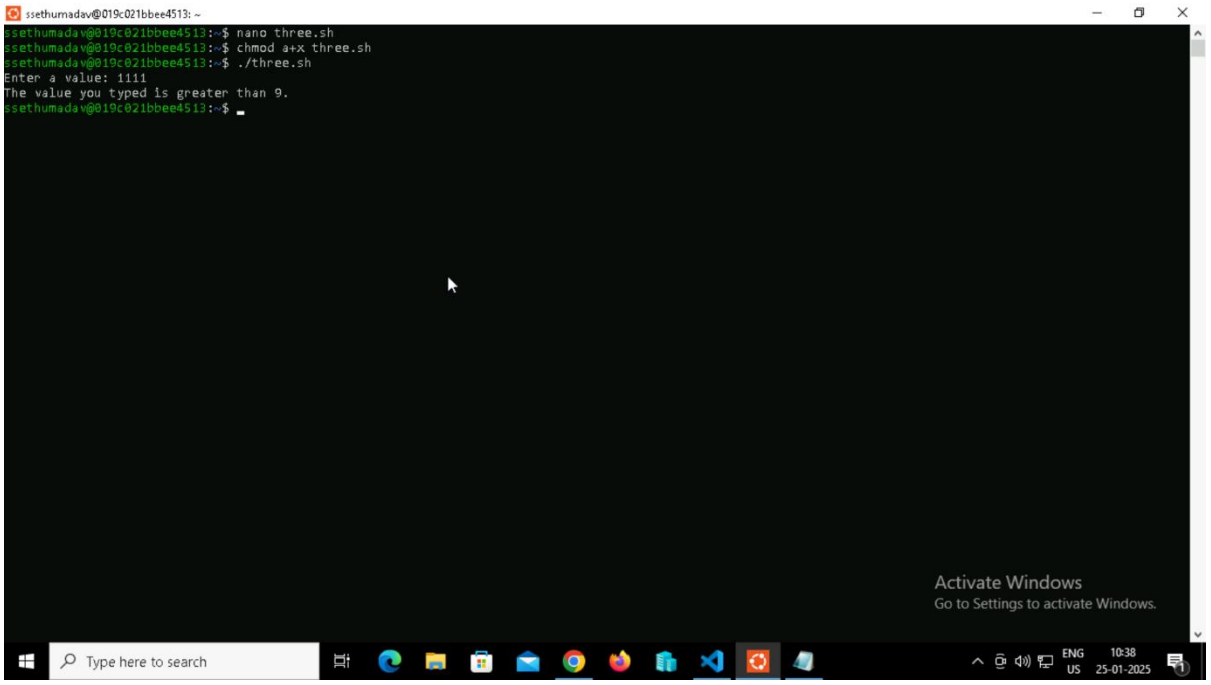
Example 2:multiple conditions with ifelse:



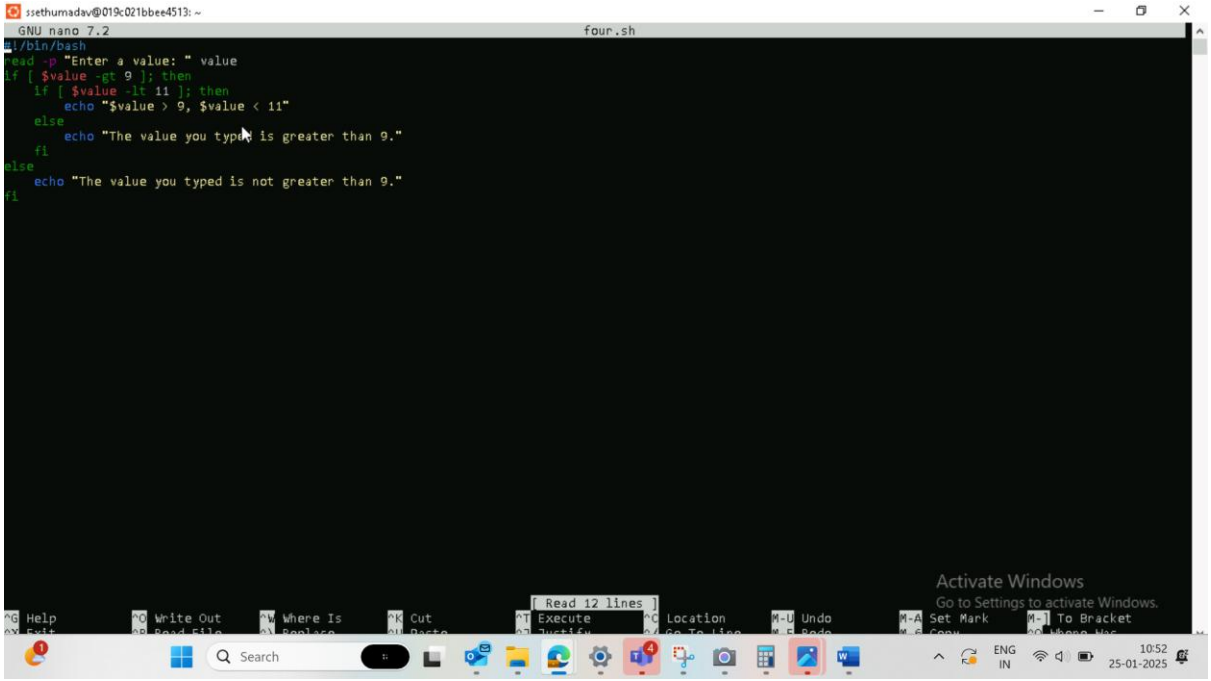


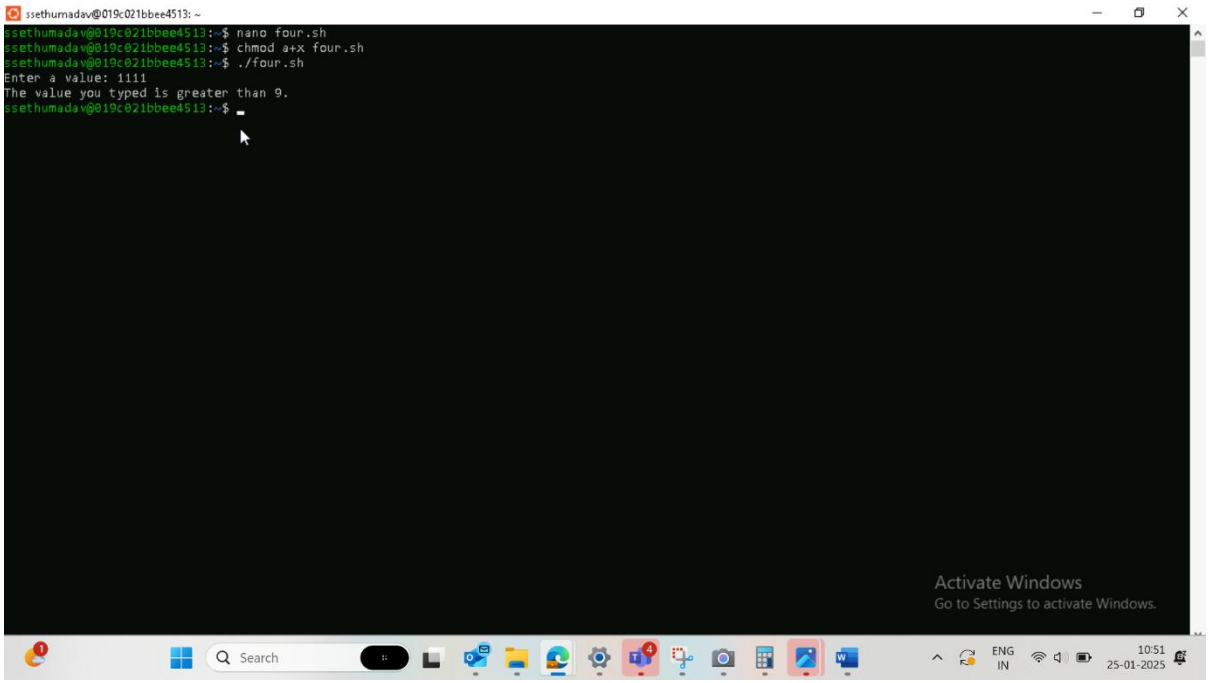
Example 3: ifelse in single line:



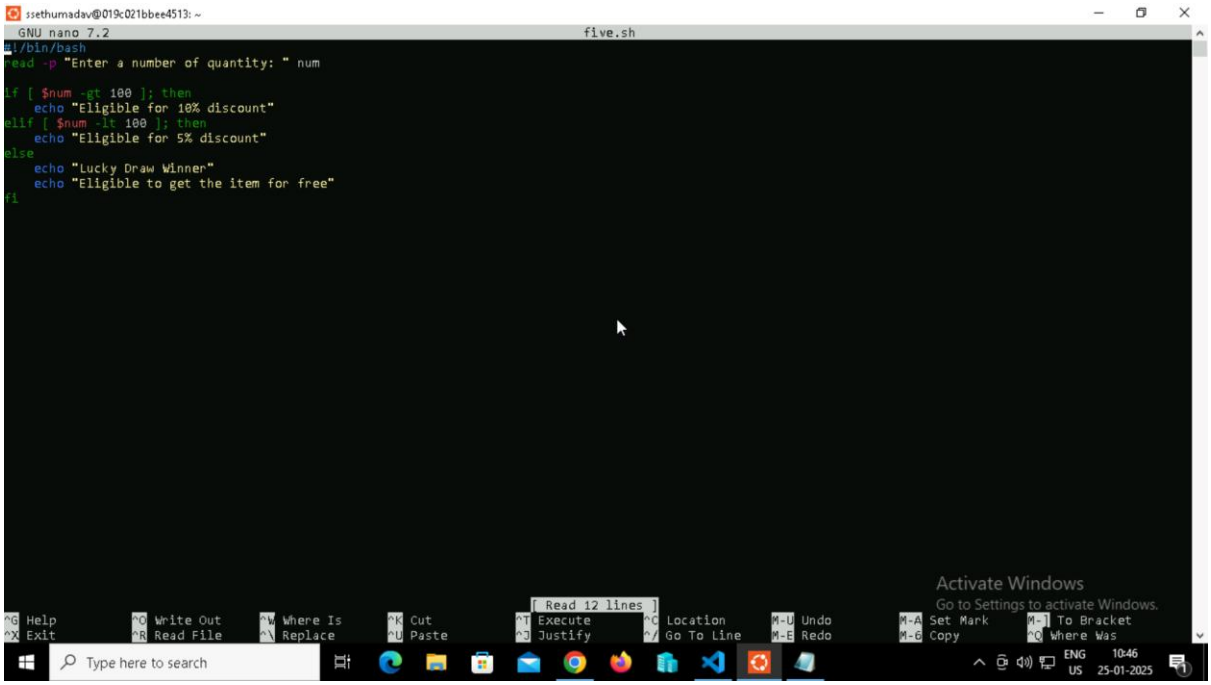


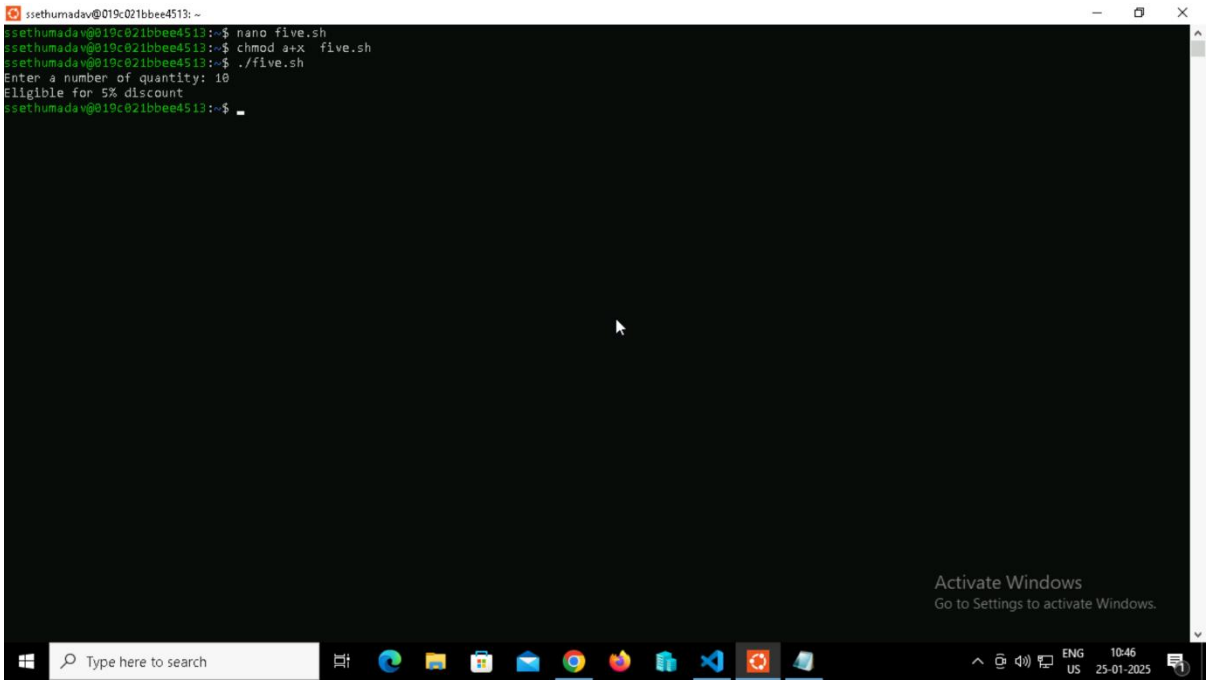
Example 4:nested ifelse:





Example 5:Elif:





Example 6:Elif with multiple conditions