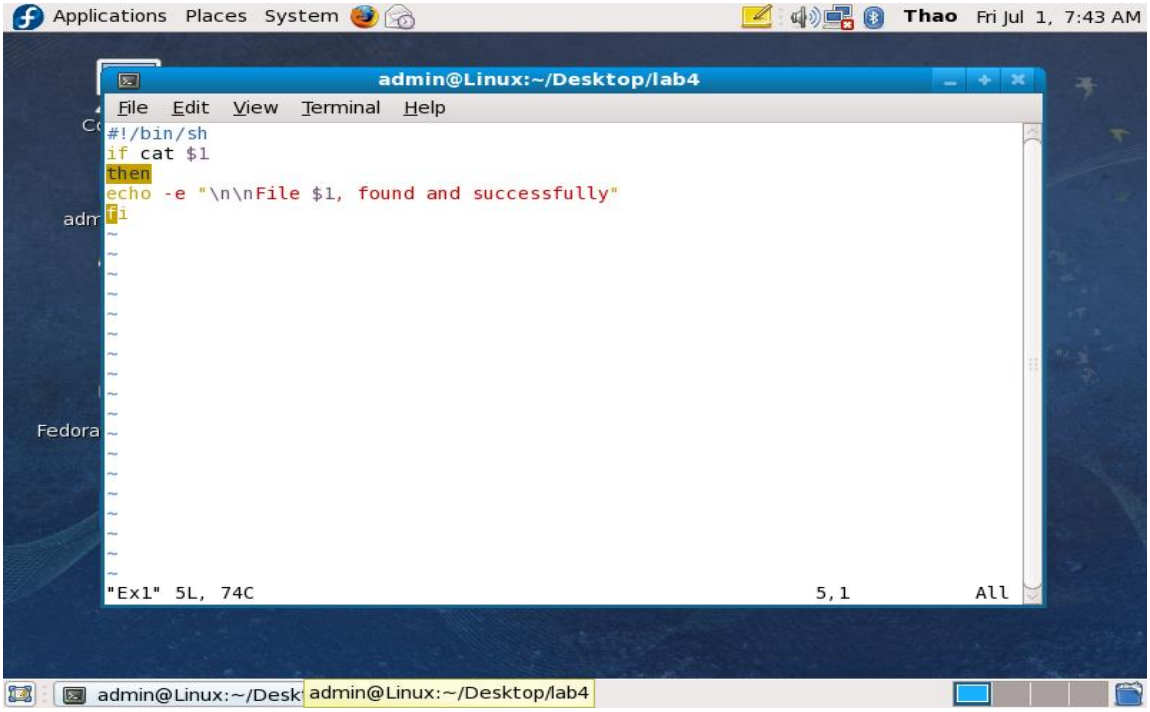
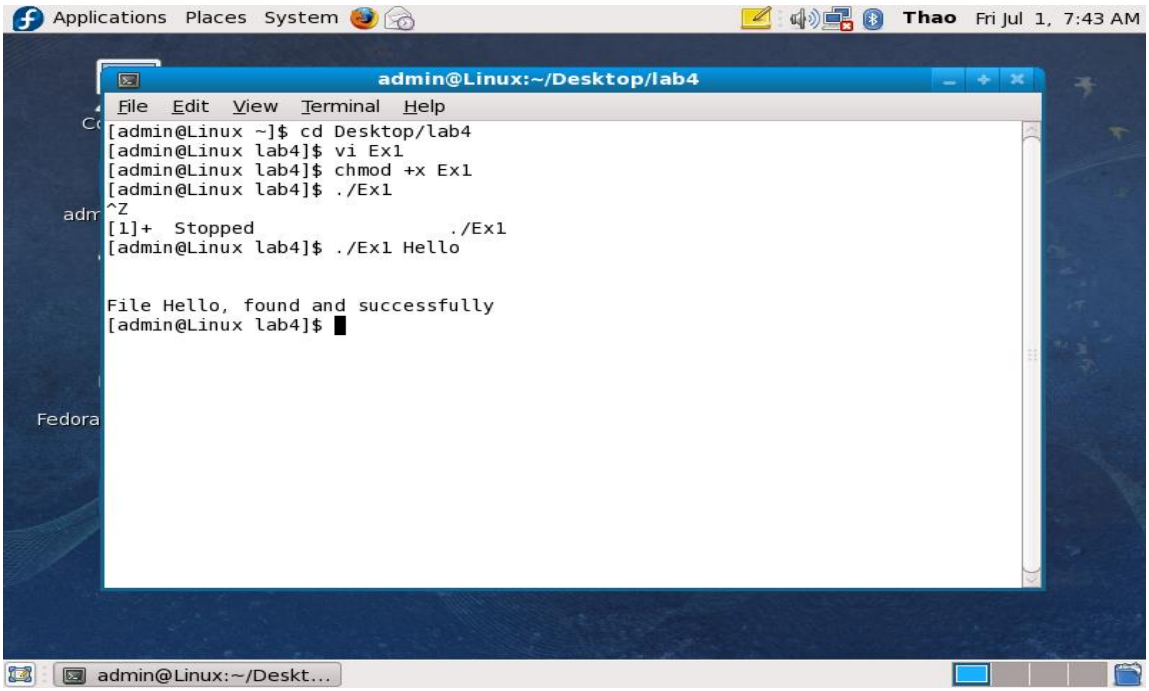
Name: Hà Thị Phương Thảo – SE161620

Class: SE1743

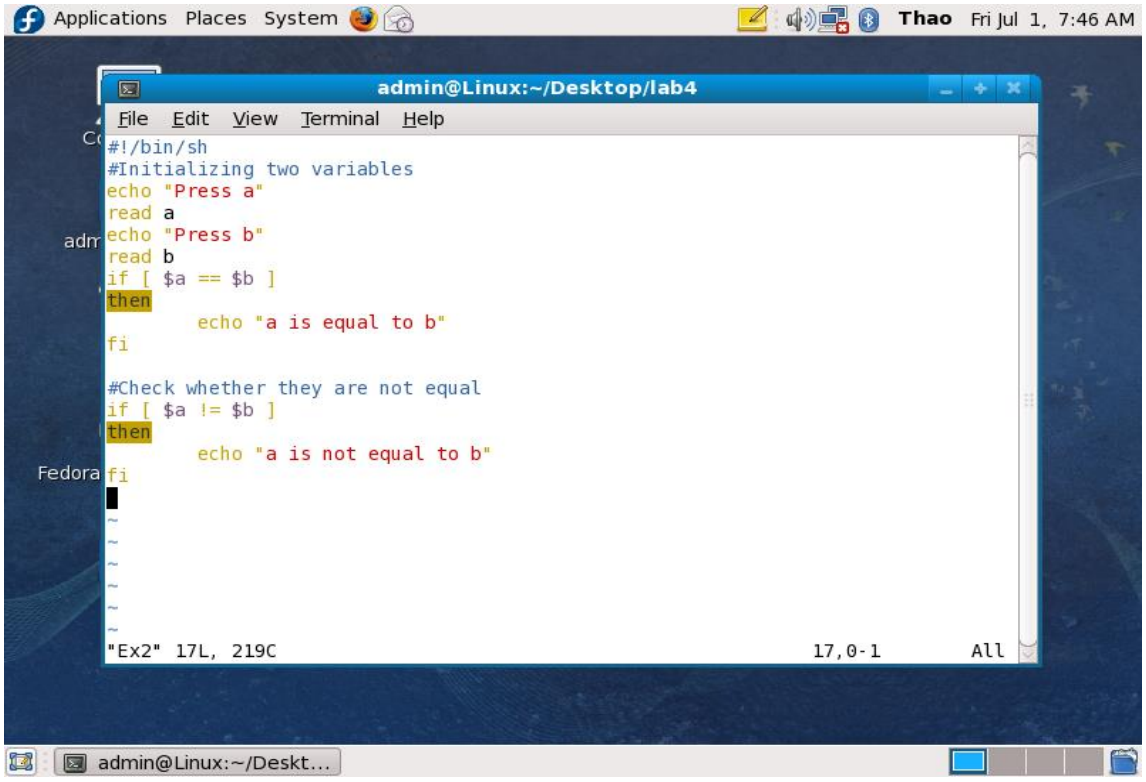
LAB4

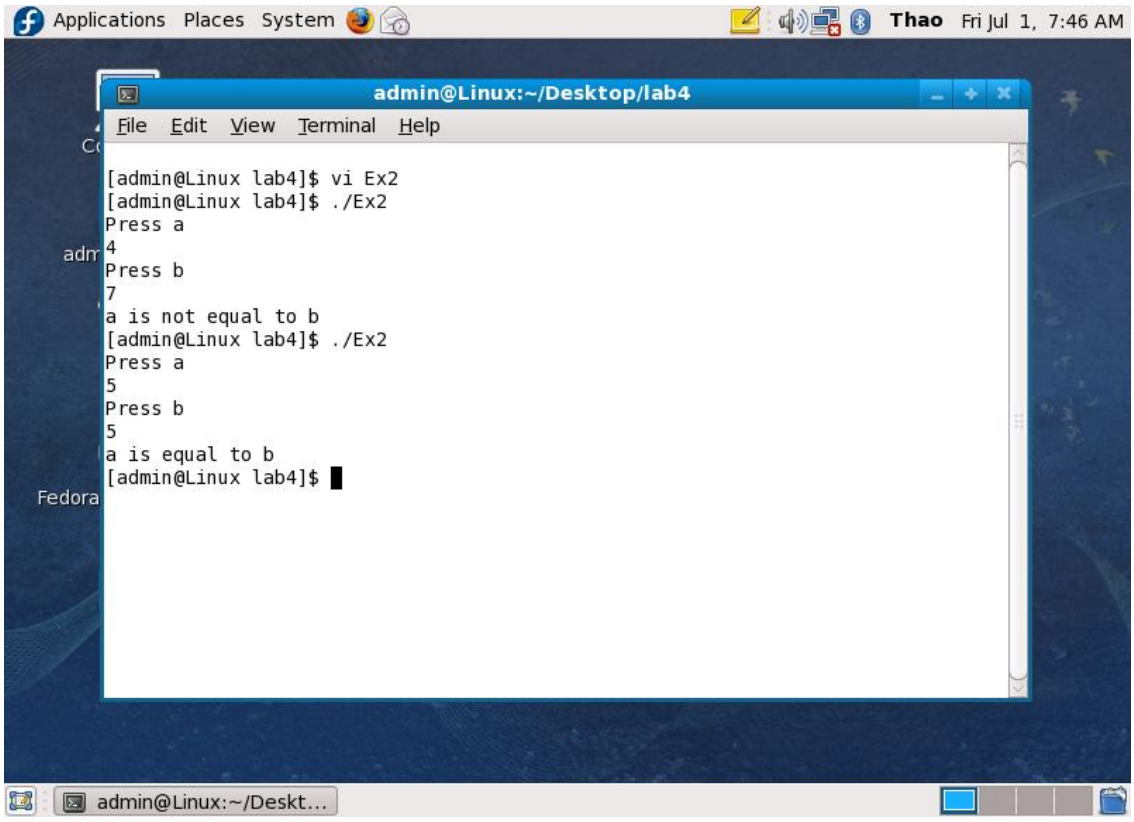
If contructs

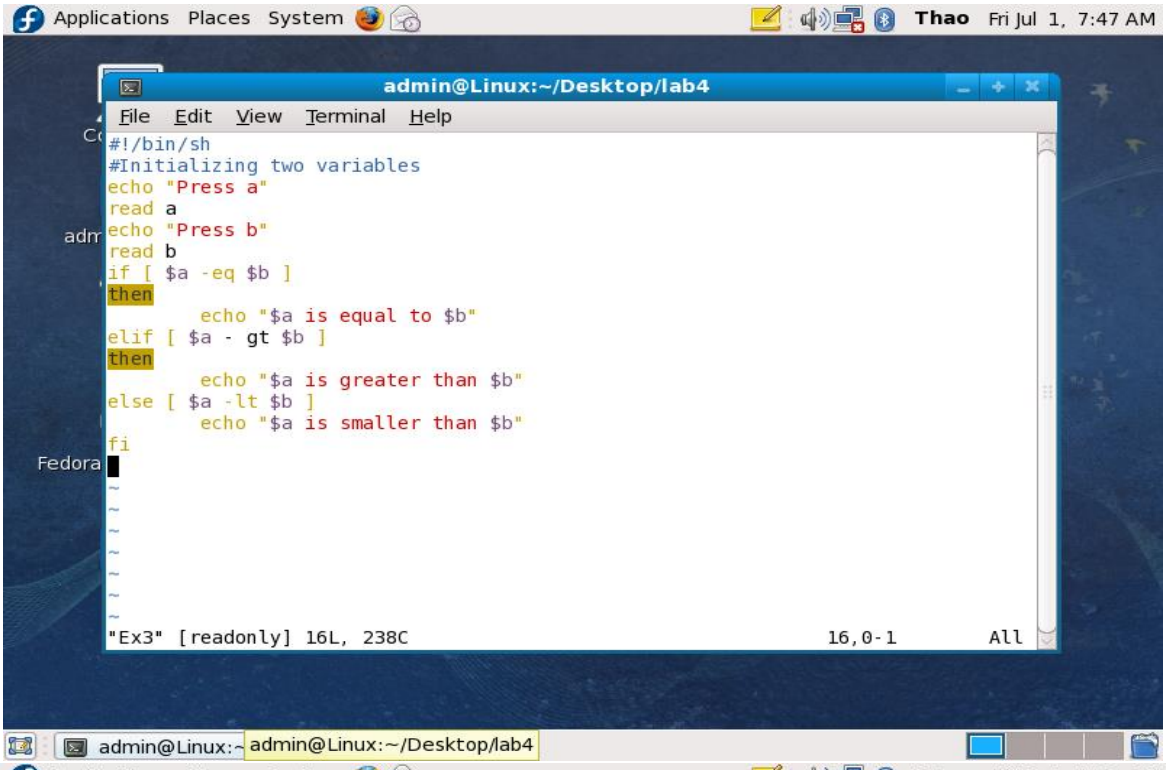


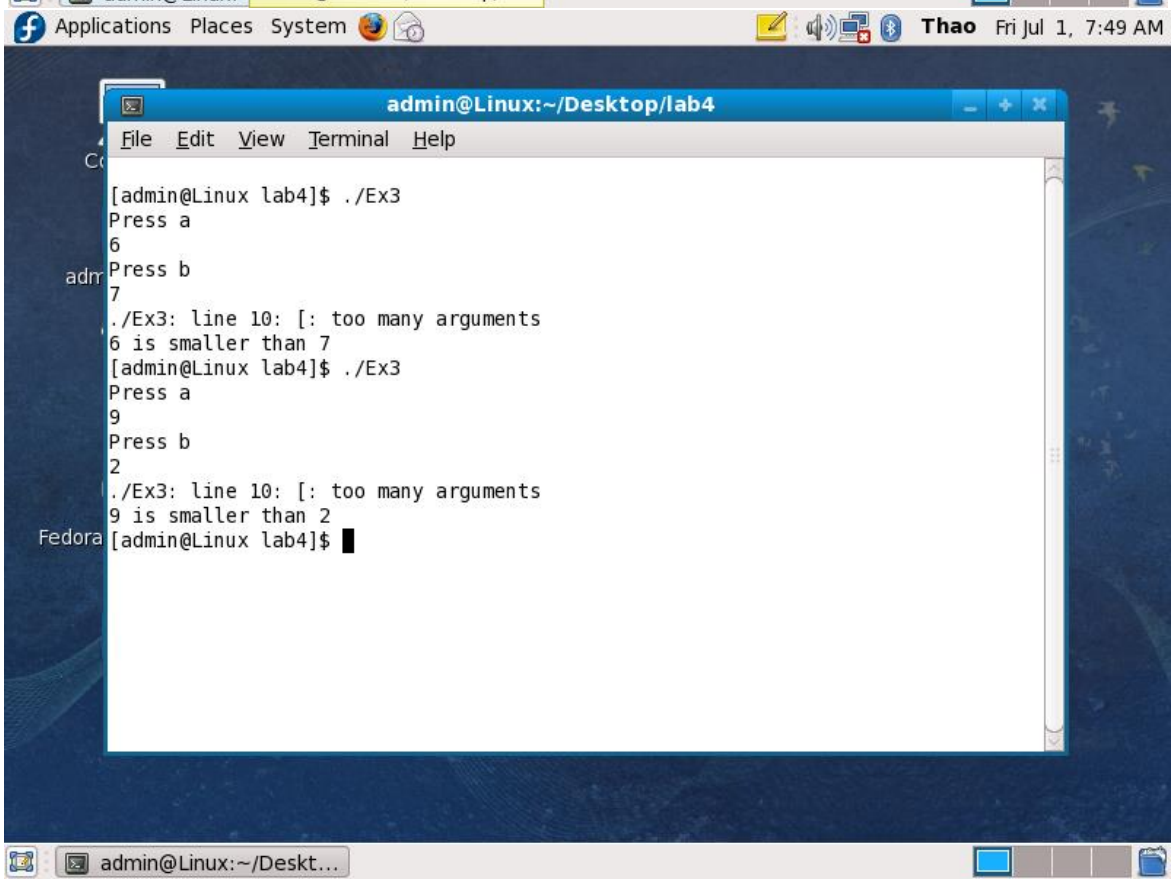


If….else contructs

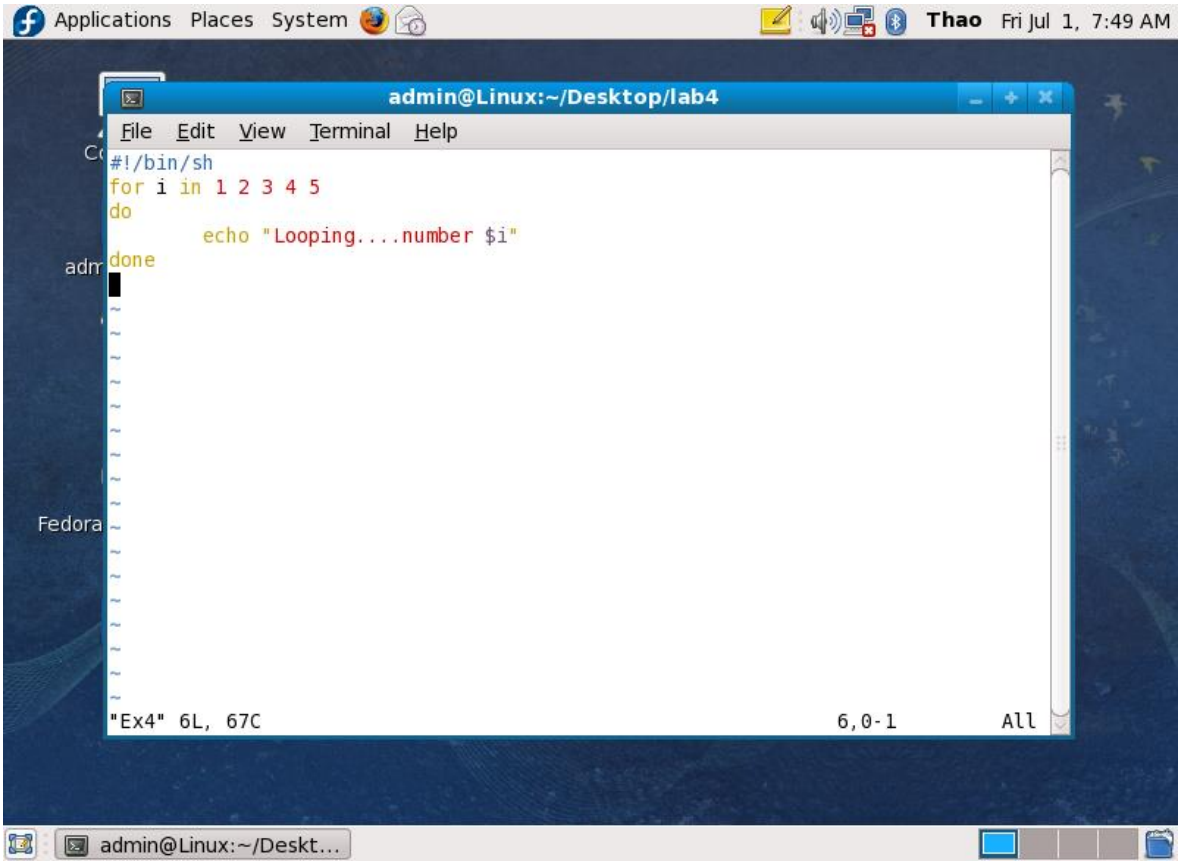


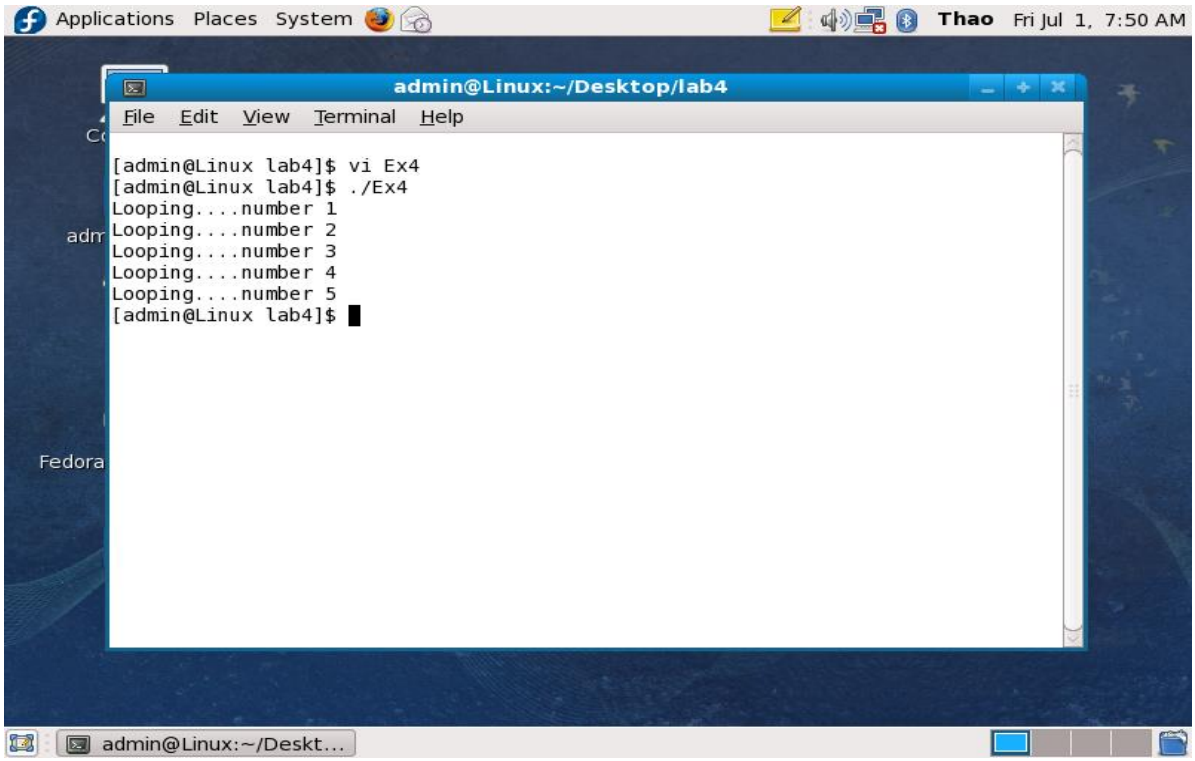



Applications Places System
Thao Fri Jul 1, 7:47 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
#!/bin/sh
#Initializing two variables
echo "Press a"
read a
echo "Press b"
read b
if [$a -eq $b]
then
echo "$a is equal to $b"
elif [$a - gt $b]
then
echo "$a is greater than $b"
else [$a -lt $b]
echo "$a is smaller than $b"
fi
"Ex3" [readonly] 16L, 238C 16,0-1 All
admin@Linux:~
admin@Linux:~/Desktop/lab4

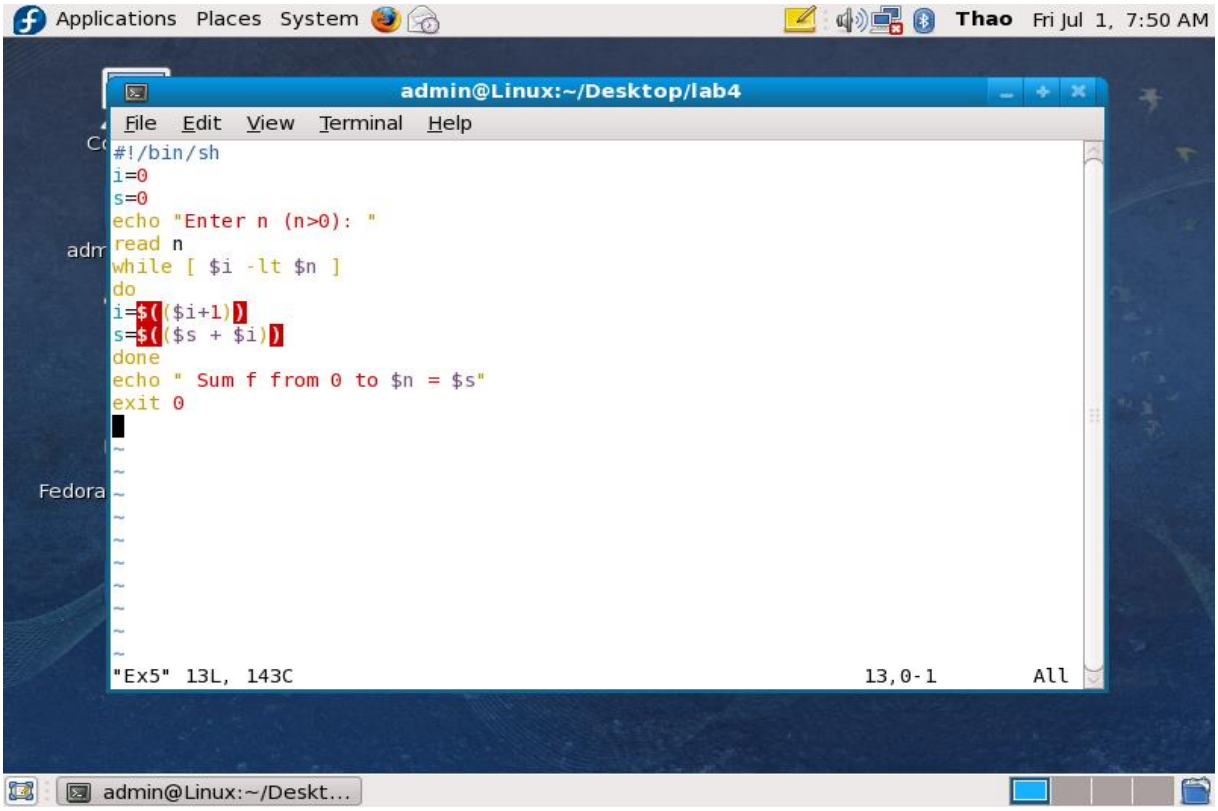

Applications Places System
Thao Fri Jul 1, 7:49 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
[admin@Linux lab4]$ ./Ex3
Press a
6
Press b
7
./Ex3: line 10: [: too many arguments
6 is smaller than 7
[admin@Linux lab4]$ ./Ex3
Press a
9
Press b
2
./Ex3: line 10: [: too many arguments
9 is smaller than 2
[admin@Linux lab4]$
admin@Linux:~/Deskt...

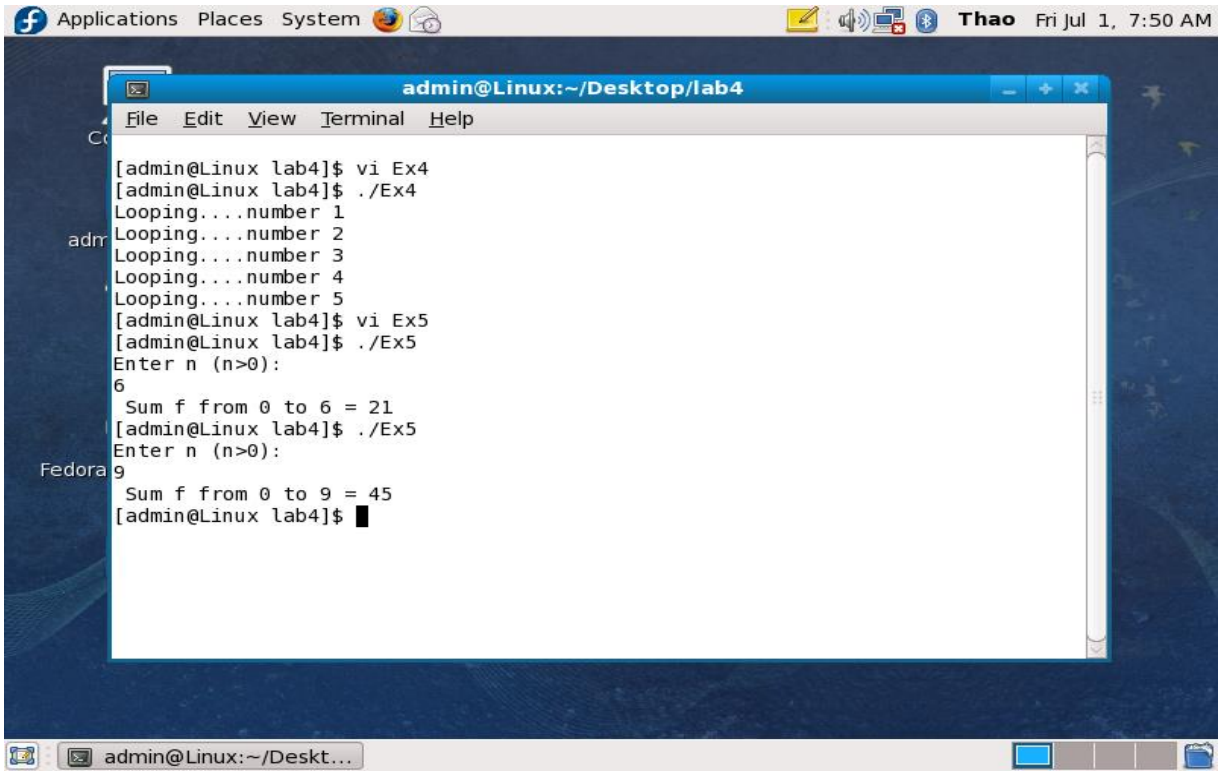
For loop:


Applications Places System
Thao Fri Jul 1, 7:49 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
#!/bin/sh
for i in 1 2 3 4 5
do
echo "Looping....number $i"
done
"Ex4" 6L, 67C 6,0-1 All
admin@Linux:~/Deskt...

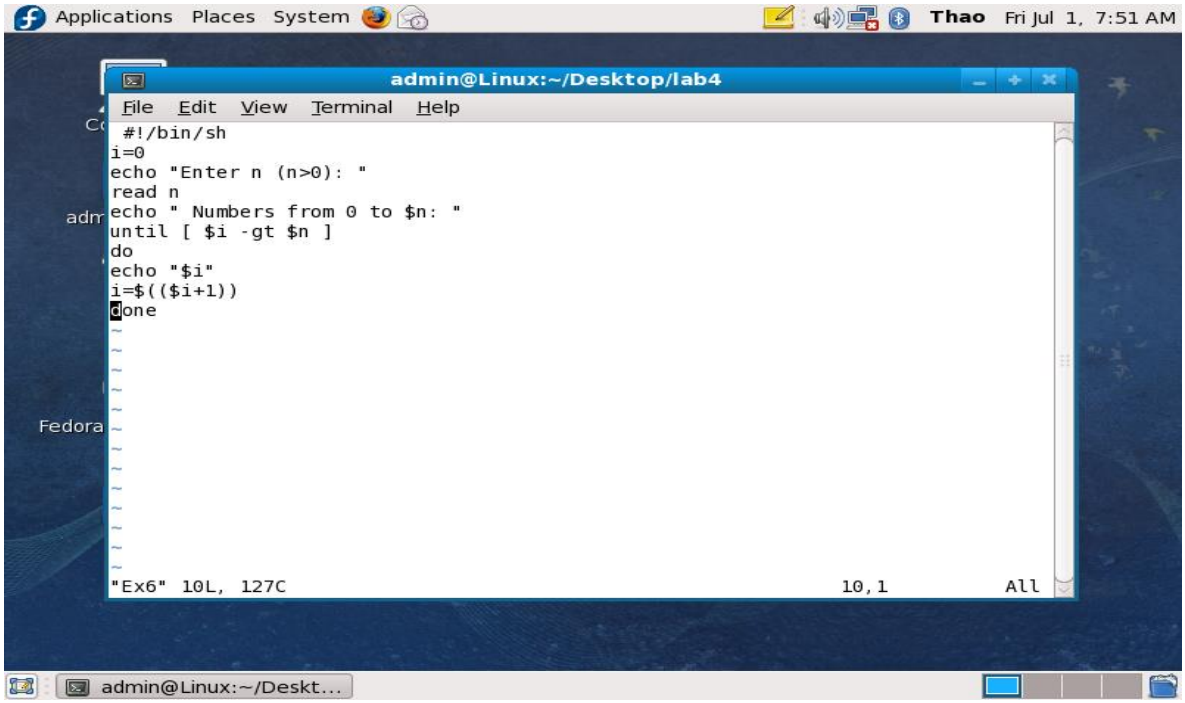

Applications Places System
Thao Fri Jul 1, 7:50 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
[admin@Linux lab4]$ vi Ex4
[admin@Linux lab4]$ ./Ex4
Looping....number 1
Looping....number 2
Looping....number 3
Looping....number 4
Looping....number 5
[admin@Linux lab4]$
admin@Linux:~/Deskt...

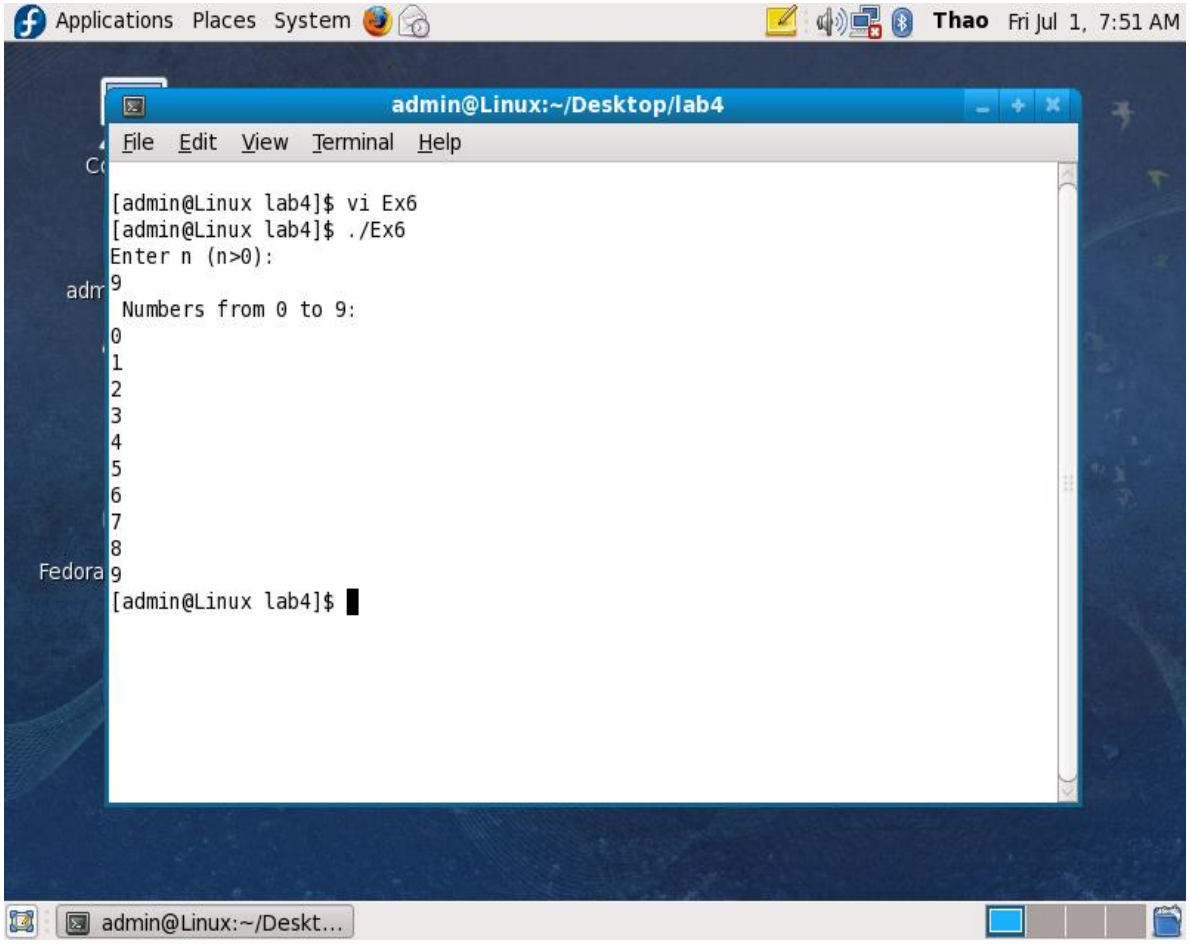
While loop:


Applications Places System
Thao Fri Jul 1, 7:50 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
#!/bin/sh
i=0
s=0
echo "Enter n (n>0): "
read n
while [$i -lt $n]
do
i=$(($i+1))
s=$(($s + $i))
done
echo " Sum f from 0 to $n = $s"
exit 0
"Ex5" 13L, 143C
13,0-1 All
admin@Linux:~/Deskt...

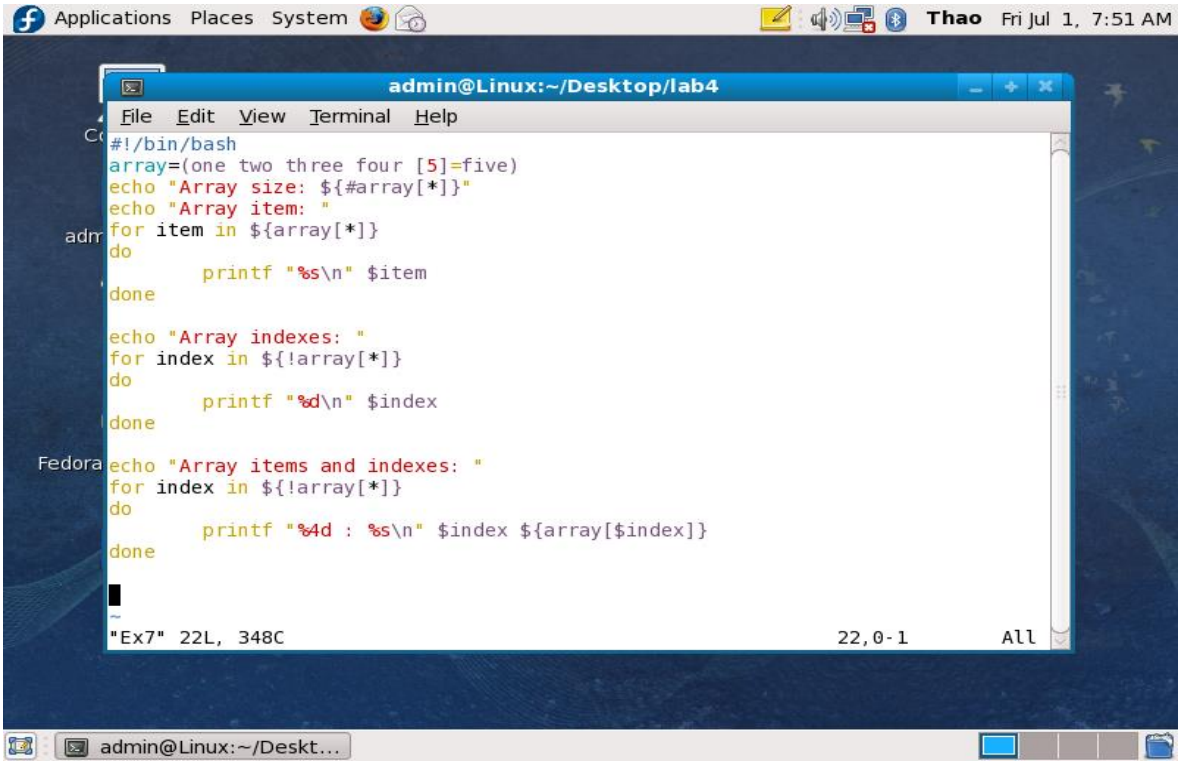

Applications Places System
Thao Fri Jul 1, 7:50 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
[admin@Linux lab4]$ vi Ex4
[admin@Linux lab4]$ ./Ex4
Looping....number 1
Looping....number 2
Looping....number 3
Looping....number 4
Looping....number 5
[admin@Linux lab4]$ vi Ex5
[admin@Linux lab4]$ ./Ex5
Enter n (n>0):
6
Sum f from 0 to 6 = 21
[admin@Linux lab4]$ ./Ex5
Enter n (n>0):
9
Sum f from 0 to 9 = 45
[admin@Linux lab4]$
admin@Linux:~/Deskt...

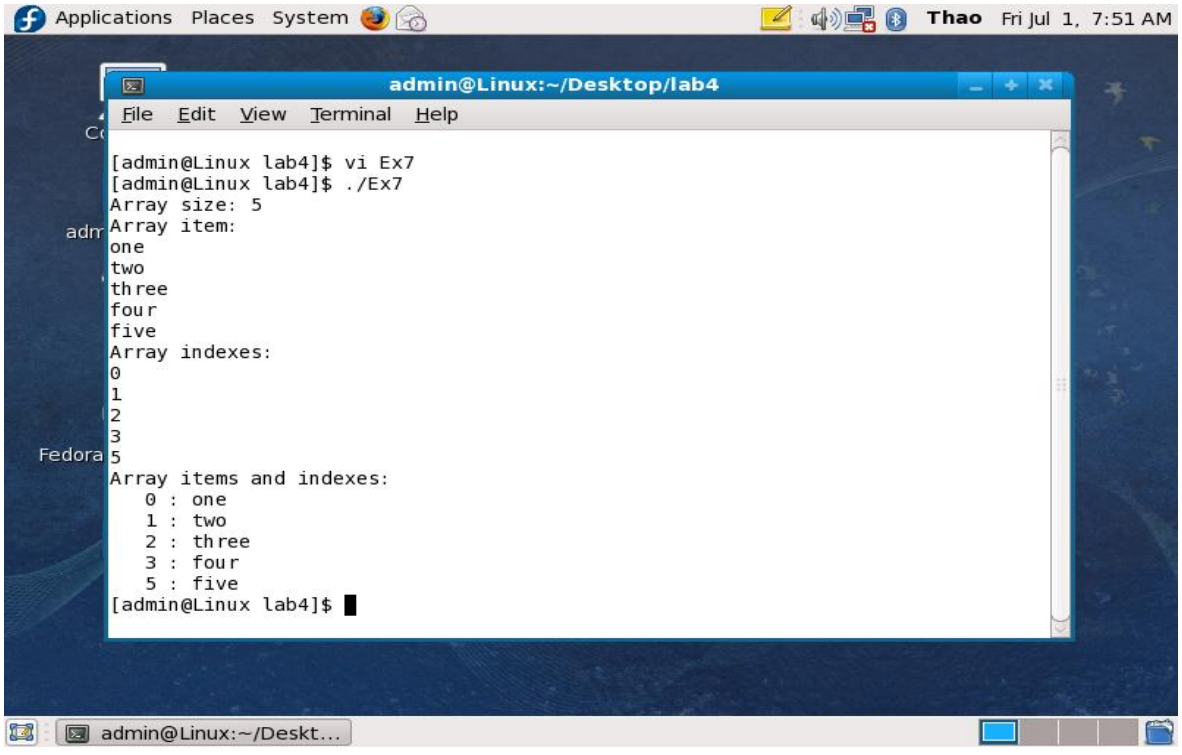
Until loop:


Applications Places System
Thao Fri Jul 1, 7:51 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
#!/bin/sh
i=0
echo "Enter n (n>0): "
read n
echo " Numbers from 0 to $n: "
until [$i -gt $n]
do
echo "$i"
i=$(($i+1))
done
"Ex6" 10L, 127C 10,1 All
admin@Linux:~/Deskt...

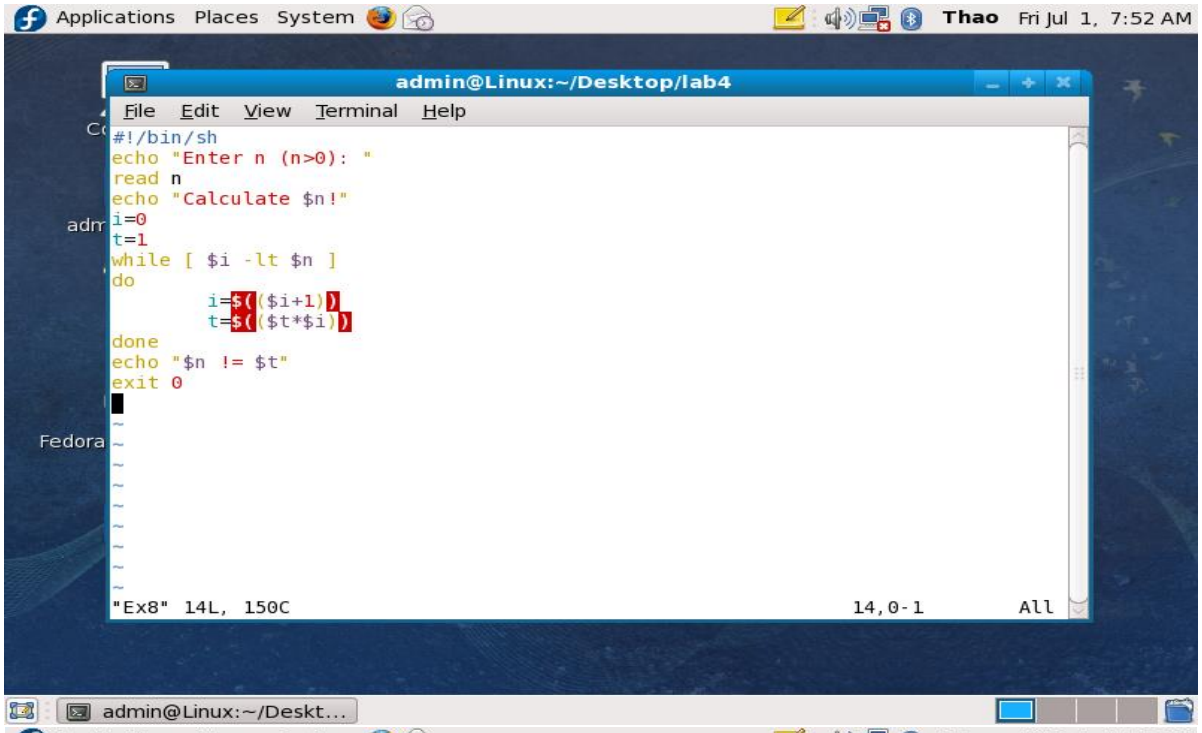

Applications Places System
Thao Fri Jul 1, 7:51 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
[admin@Linux lab4]$ vi Ex6
[admin@Linux lab4]$ ./Ex6
Enter n (n>0):
9
Numbers from 0 to 9:
0
1
2
3
4
5
6
7
8
9
[admin@Linux lab4]$
admin@Linux:~/Deskt...

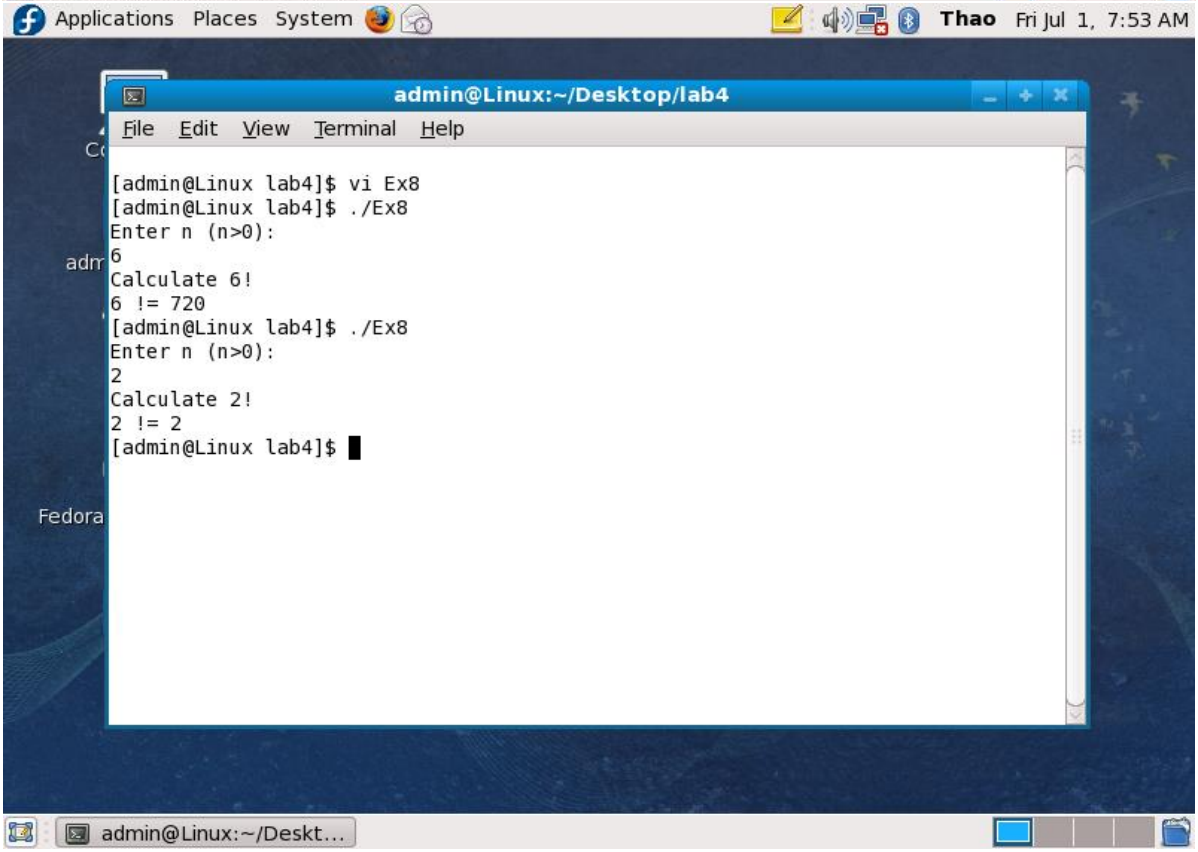
Array:


Applications Places System
Thao Fri Jul 1, 7:51 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
#!/bin/bash
array=(one two three four [5]=five)
echo "Array size: ${#array[*]}"
echo "Array item: "
for item in ${array[*]}
do
printf "%s\n" $item
done
echo "Array indexes: "
for index in ${!array[*]}
do
printf "%d\n" $index
done
echo "Array items and indexes: "
for index in ${!array[*]}
do
printf "%4d : %s\n" $index ${array[$index]}
done
"Ex7" 22L, 348C 22,0-1 All
admin@Linux:~/Deskt...

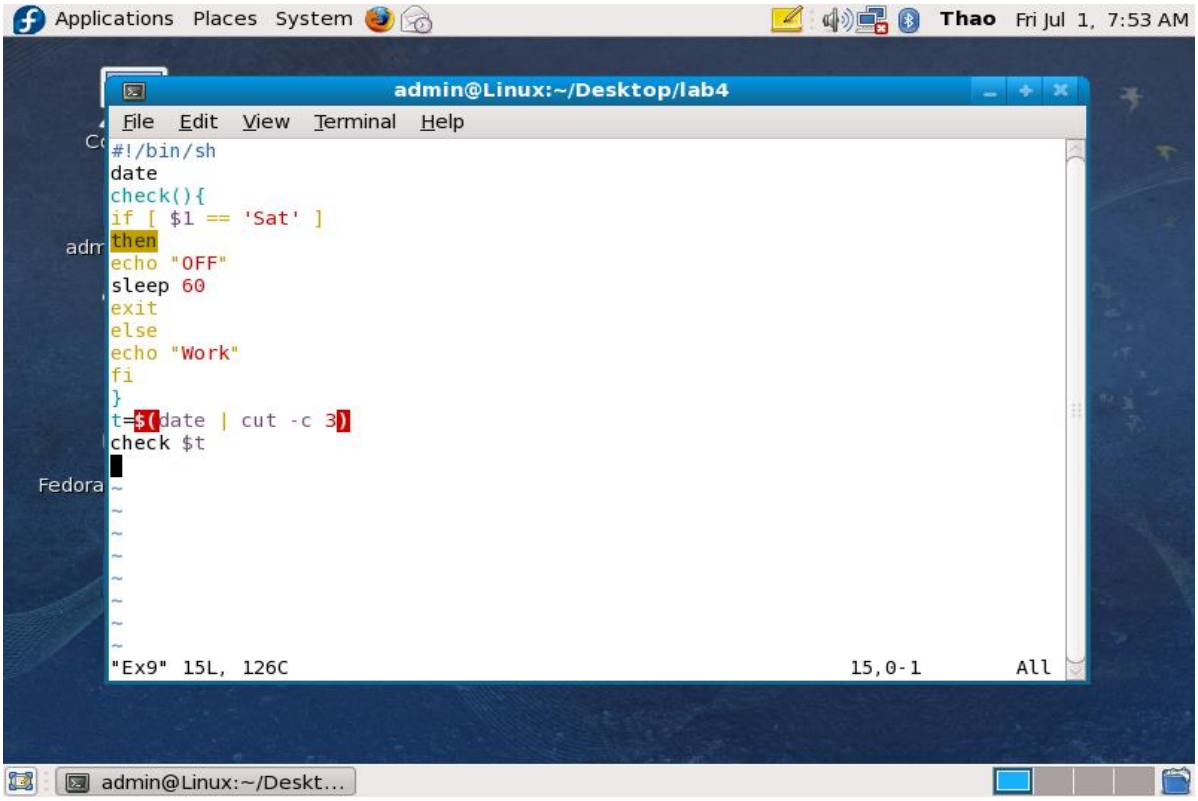

Applications Places System
Thao Fri Jul 1, 7:51 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
[admin@Linux lab4]$ vi Ex7
[admin@Linux lab4]$ ./Ex7
Array size: 5
Array item:
one
two
three
four
five
Array indexes:
0
1
2
3
5
Array items and indexes:
0 : one
1 : two
2 : three
3 : four
5 : five
[admin@Linux lab4]$
admin@Linux:~/Deskt...

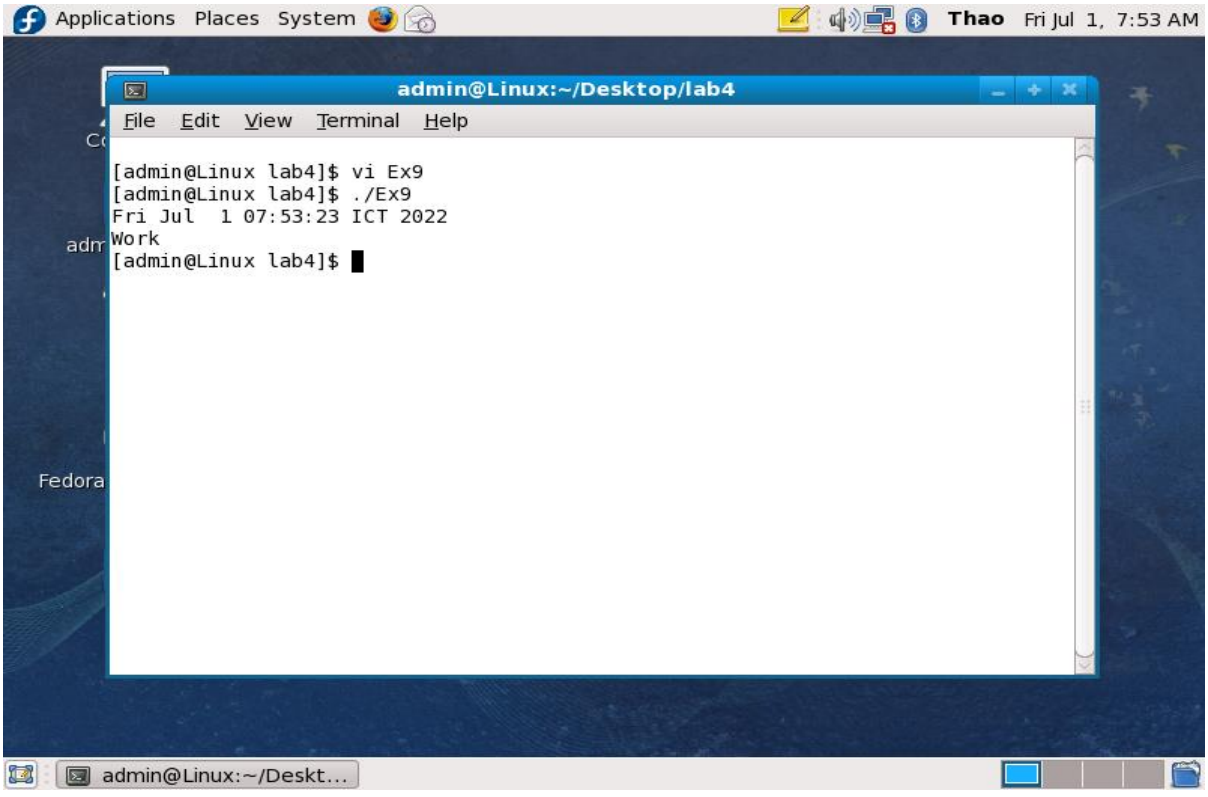
Factorial:


Applications Places System
Thao Fri Jul 1, 7:52 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
#!/bin/sh
echo "Enter n (n>0): "
read n
echo "Calculate $n!"
i=0
t=1
while [$i -lt $n]
do
i=$(($i+1))
t=$(($t*$i))
done
echo "$n != $t"
exit 0
"Ex8" 14L, 150C
14,0-1
All
admin@Linux:~/Deskt...

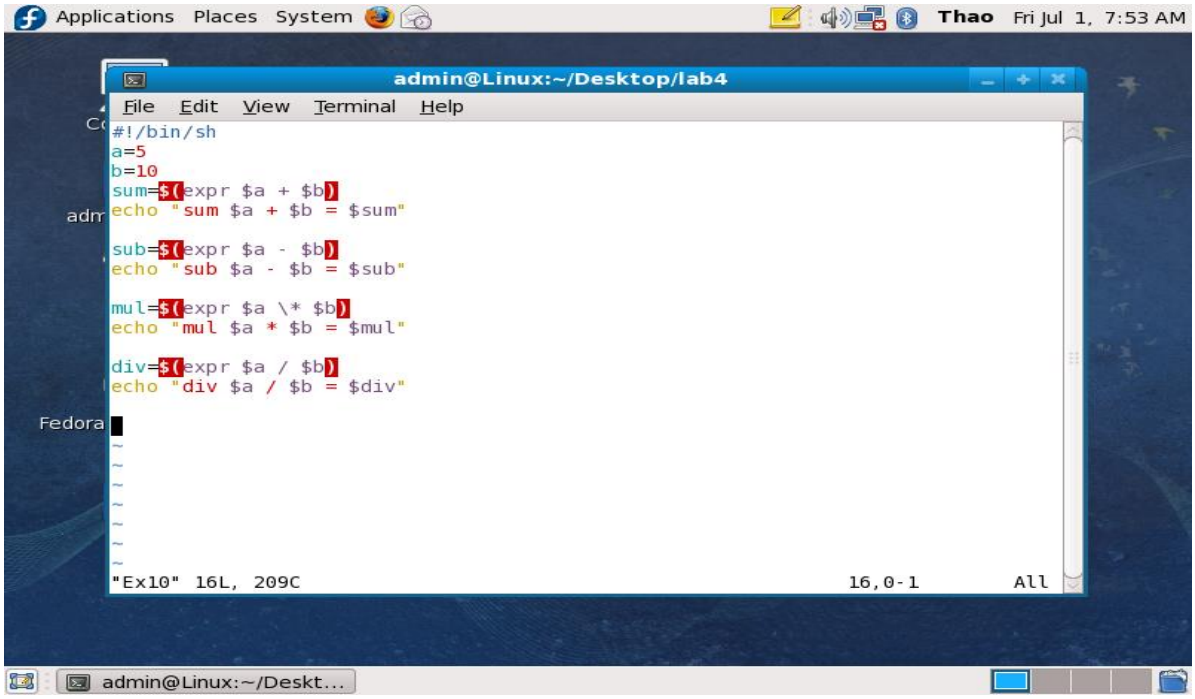

Applications Places System
Thao Fri Jul 1, 7:53 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
[admin@Linux lab4]$ vi Ex8
[admin@Linux lab4]$ ./Ex8
Enter n (n>0):
6
Calculate 6!
6 != 720
[admin@Linux lab4]$ ./Ex8
Enter n (n>0):
2
Calculate 2!
2 != 2
[admin@Linux lab4]$
admin@Linux:~/Deskt...

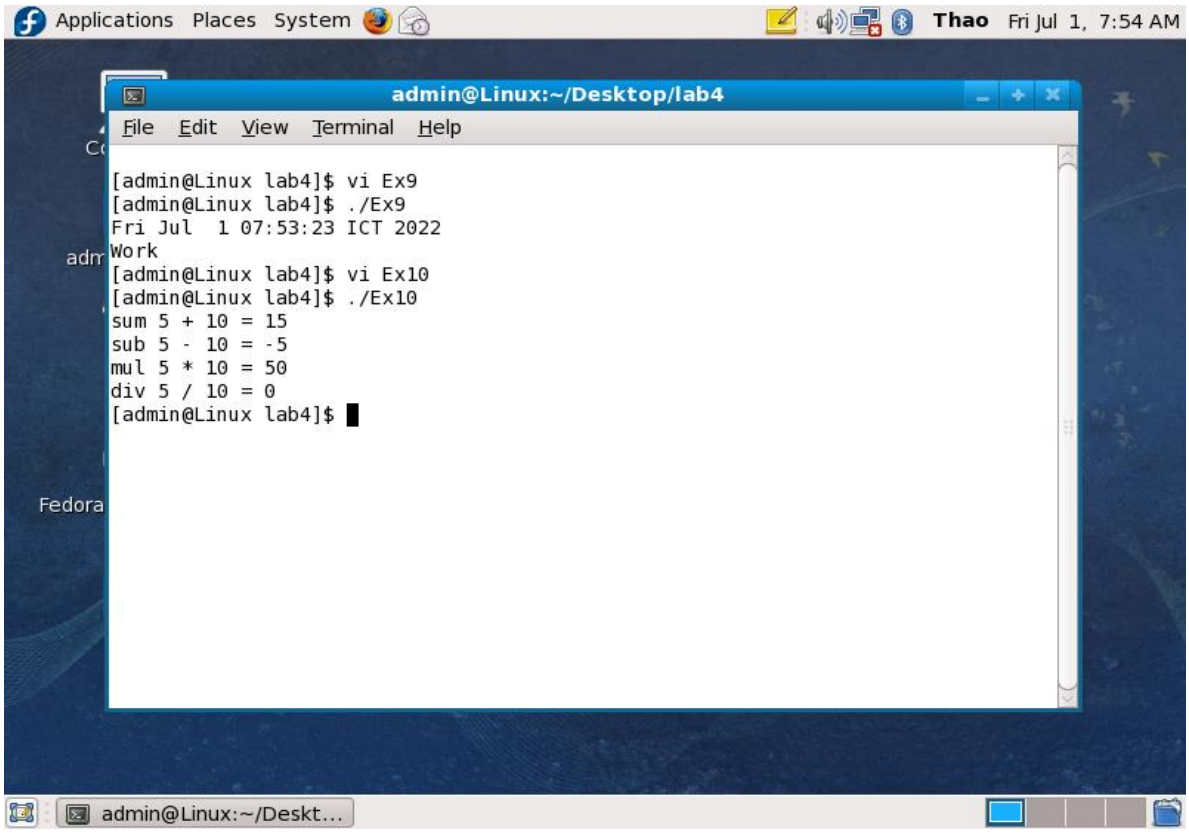
Check date:


Applications Places System
Thao Fri Jul 1, 7:53 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
#!/bin/sh
date
check(){
if [$1 == 'Sat']
then
echo "OFF"
sleep 60
exit
else
echo "Work"
fi
}
t=$(date | cut -c 3)
check $t
"Ex9" 15L, 126C 15,0-1 All
admin@Linux:~/Deskt...


Applications Places System
Thao Fri Jul 1, 7:53 AM
admin@Linux:~/Desktop/lab4
File Edit View Terminal Help
[admin@Linux lab4]$ vi Ex9
[admin@Linux lab4]$ ./Ex9
Fri Jul 1 07:53:23 ICT 2022
Work
[admin@Linux lab4]$
admin@Linux:~/Deskt...

Arithmetic Operation





Luckily number: