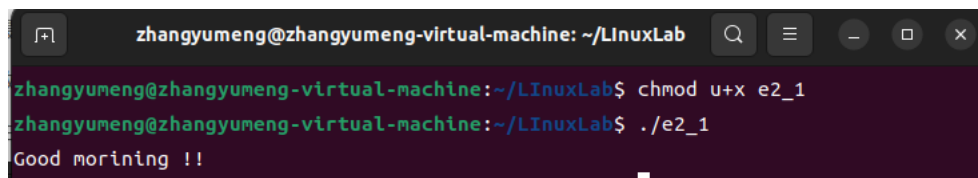


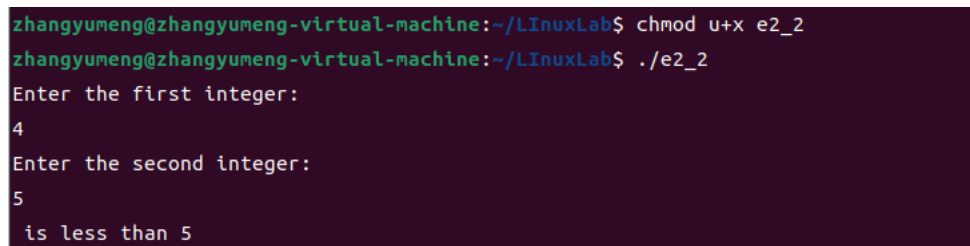
1. Obtain the system time, and check whether it is in the morning, afternoon, or evening.

```
#!/bin/bash
hour=`date +%H`
case $hour in
0[1-9] | 1[01] )
echo "Good morning !!"
;;
1[234567] )
echo "Good afternoon !!"
;;
* )
echo "Good evening !! "
;;
esac
```

A terminal window titled 'zhangyumeng@zhangyumeng-virtual-machine: ~/LinuxLab'. The prompt is 'zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab\$'. The user enters 'chmod u+x e2_1'. The prompt changes to 'zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab\$'. The user enters './e2_1'. The output is 'Good morning !!'.

2. Input two numbers, check which one is greater, and output the result.

```
#!/bin/sh
echo "Enter the first integer:"
read first
echo "Enter the second integer:"
read second
if [ "$first" -gt "$second" ]
then
echo "$first is greater than $second"
elif [ "$first" -lt "$second" ]
then
echo "$first is less than $second"
else
echo "$first is equal to $second"
fi
```

A terminal window titled 'zhangyumeng@zhangyumeng-virtual-machine: ~/LinuxLab'. The prompt is 'zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab\$'. The user enters 'chmod u+x e2_2'. The prompt changes to 'zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab\$'. The user enters './e2_2'. The output is 'Enter the first integer:', followed by '4' on the next line. Then 'Enter the second integer:', followed by '5' on the next line. Finally, the output is '4 is less than 5'.

3. Find the minimal value in a given list.

```
#!/bin/bash
```

```

smallest=10000
for i in 8 2 18 0 -3 87
do
if test $i -lt $smallest
then
smallest=$i
fi
done
echo $smallest

```

```

zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab$ chmod u+x e2_3
zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab$ ./e2_3
-3

```

4. Calculate the number of executive file in the current directory.

```

#!/bin/bash
count=0
for i in *
do
if test -x $i
then
count=`expr $count + 1`
fi
done
echo Total of $count files executable

```

```

zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab$ chmod u+x e2_4
zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab$ ./e2_4
Total of 7 files executable

```

5. Check whether a given number is a prime, you have to write a function, and call the function.

```

prime()
{
flag=1
j=2
while [ $j -le `expr $1 / 2` ]
do
if [ `expr $1 % $j` -eq 0 ]
then
flag=0
break
fi
j=`expr $j + 1`
done
if [ $flag -eq 1 ]
then
return 1

```

```
else  
return 0  
fi  
}  
prime $1  
if [ $? -eq 1 ]  
then  
echo "$1 is a prime!"  
else  
echo "$1 is not a prime!"  
fi
```

```
zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab$ chmod u+x e2_5  
zhangyumeng@zhangyumeng-virtual-machine:~/LinuxLab$ ./e2_5 7  
7 is a prime!
```