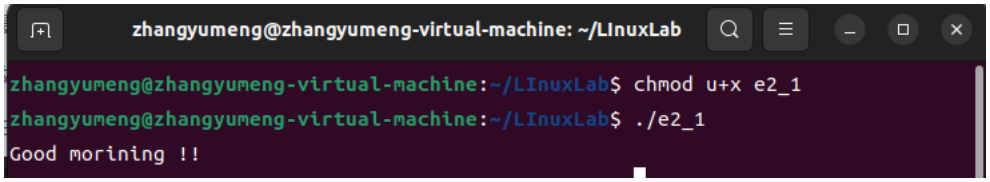
1. **Obtain the system time, and check whether it is in themorning, afternoon, or evening.**

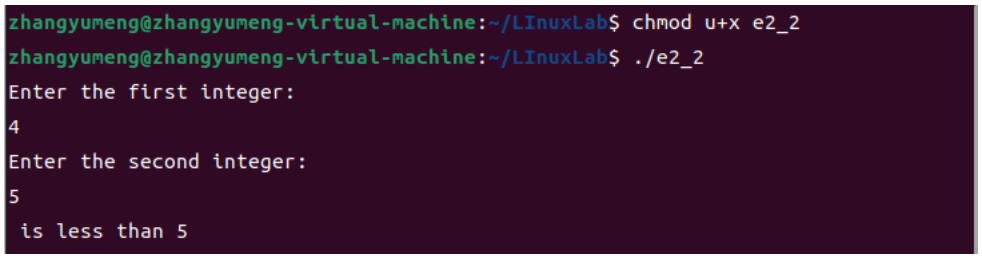
```
#!/bin/bash
hour=`date +%H`
case $hour in
0[1-9] | 1[01] )
echo "Good morining !!"
;;
1[234567] )
echo "Good afternoon !!"
;;
* )
echo "Good evening !! "
;;

esac
```



2. **Input two number, check which one is greater, andoutput 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
```



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 currentdirectory.

```
#!/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 towrite 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!
```