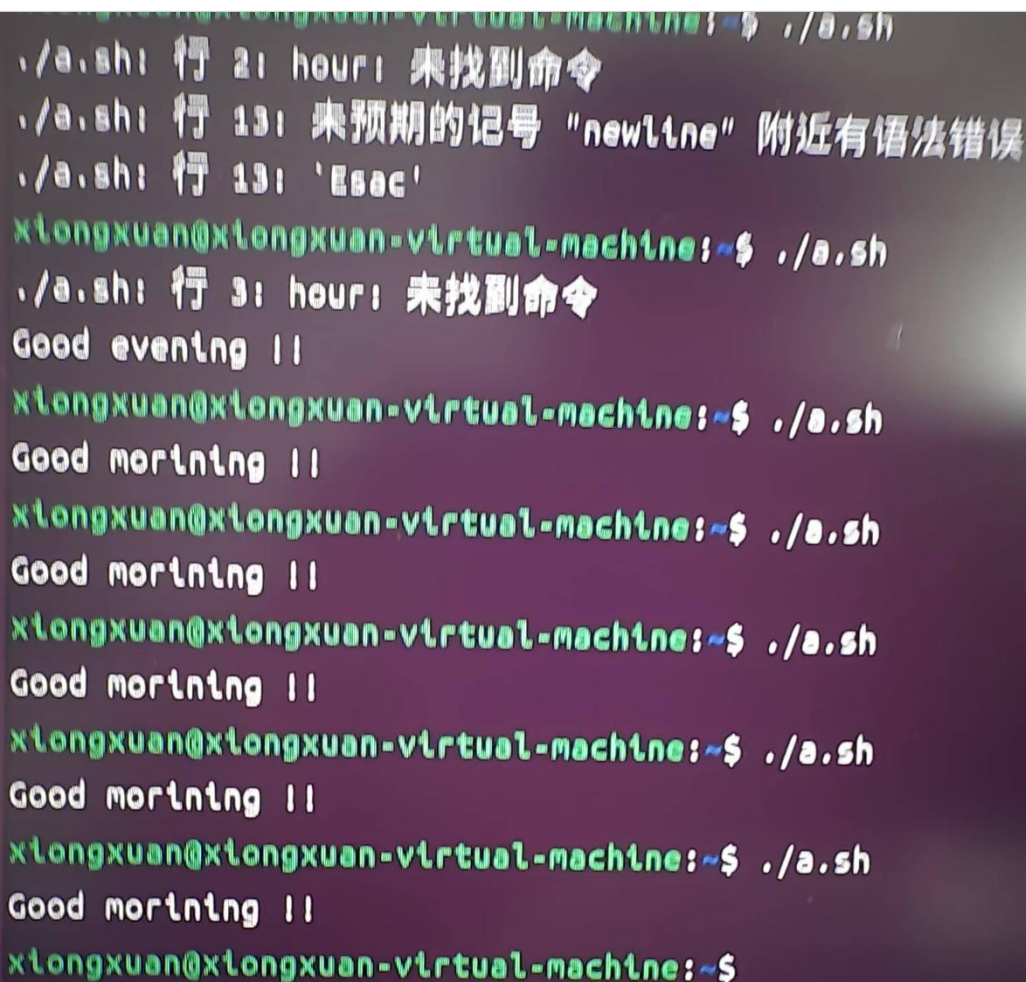


1. Obtain the system time, and check whether it is in the morning, afternoon, or evening.

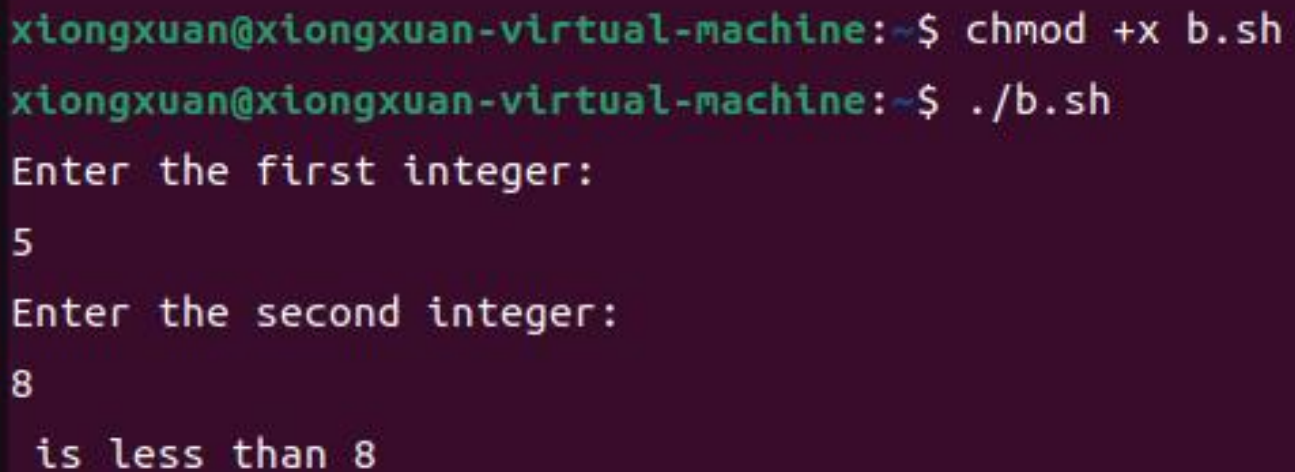
```
#!/bin/bash
hour = `date +%H`
case $hour in
0[1-9] | 1[01] )
echo "Good morining !!"
;;
1[234567] )
echo "Good afternoon !!"
;;
* )
echo "Good evening !! "
;;
Esac
```



```
./a.sh: 行 2: hour: 未找到命令
./a.sh: 行 13: 未预期的记号 "newline" 附近有语法错误
./a.sh: 行 13: 'Esac'
xlongxuan@xlongxuan-virtual-machine:~$ ./a.sh
./a.sh: 行 3: hour: 未找到命令
Good evening !!
xlongxuan@xlongxuan-virtual-machine:~$ ./a.sh
Good morning !!
xlongxuan@xlongxuan-virtual-machine:~$ ./a.sh
Good morning !!
xlongxuan@xlongxuan-virtual-machine:~$ ./a.sh
Good morning !!
xlongxuan@xlongxuan-virtual-machine:~$ ./a.sh
Good morning !!
xlongxuan@xlongxuan-virtual-machine:~$ ./a.sh
Good morning !!
xlongxuan@xlongxuan-virtual-machine:~$
```

2. Input two number, 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 with a dark purple background. The prompt is 'xiongxuan@xiongxuan-virtual-machine:~\$'. The user enters 'chmod +x b.sh'. The prompt is 'xiongxuan@xiongxuan-virtual-machine:~\$'. The user enters './b.sh'. The script outputs 'Enter the first integer:', followed by the input '5'. Then it outputs 'Enter the second integer:', followed by the input '8'. Finally, it outputs 'is less than 8'.

```
xiongxuan@xiongxuan-virtual-machine:~$ chmod +x b.sh
xiongxuan@xiongxuan-virtual-machine:~$ ./b.sh
Enter the first integer:
5
Enter the second integer:
8
is less than 8
```

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
```

```
xiongxuan@xiongxuan-virtual-machine:~$ chmod +x c.sh
xiongxuan@xiongxuan-virtual-machine:~$ ./c.sh
-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
```

```
xiongxuan@xiongxuan-virtual-machine:~$ chmod +x d.sh
xiongxuan@xiongxuan-virtual-machine:~$ ./d.sh
Total of 15 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
```

xiongxuan@xiongxuan-virtual-machine:~\$./e.sh

Total of 16 files executable

Enter a number: 8

8 is not a prime number.

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