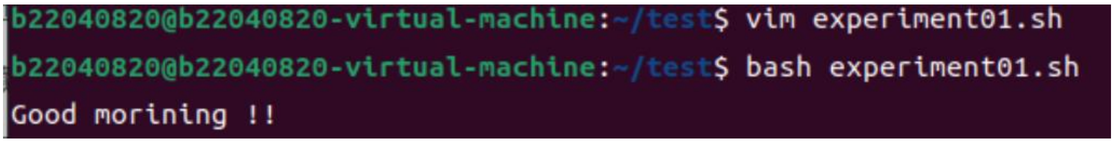
实验二

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
```

实验结果如下：

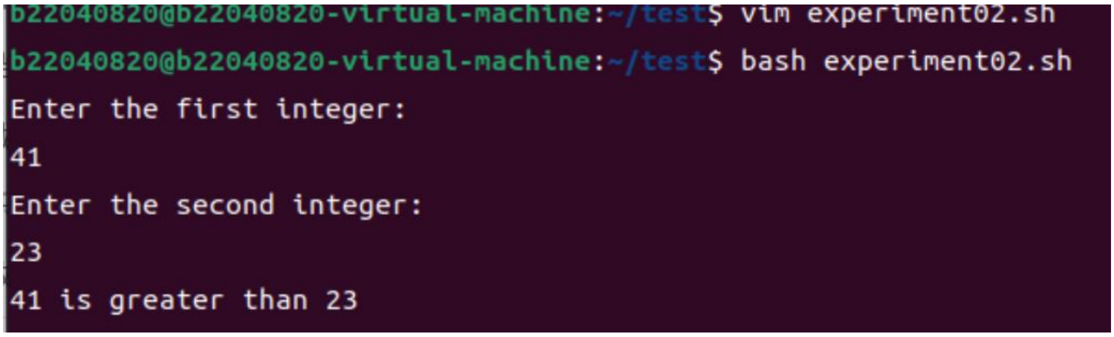


```
b22040820@b22040820-virtual-machine:~/test$ vim experiment01.sh
b22040820@b22040820-virtual-machine:~/test$ bash experiment01.sh
Good morining !!
```

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
```

实验结果如下：

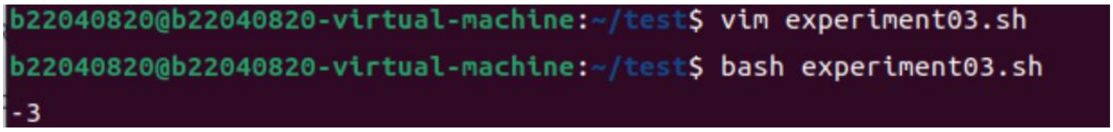


```
b22040820@b22040820-virtual-machine:~/test$ vim experiment02.sh
b22040820@b22040820-virtual-machine:~/test$ bash experiment02.sh
Enter the first integer:
41
Enter the second integer:
23
41 is greater than 23
```

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
```

实验结果如下：

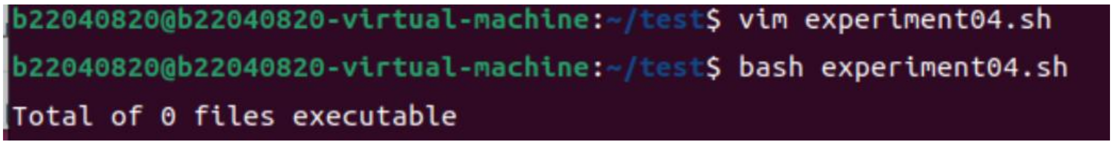


```
b22040820@b22040820-virtual-machine:~/test$ vim experiment03.sh
b22040820@b22040820-virtual-machine:~/test$ bash experiment03.sh
-3
```

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
```

实验结果如下：

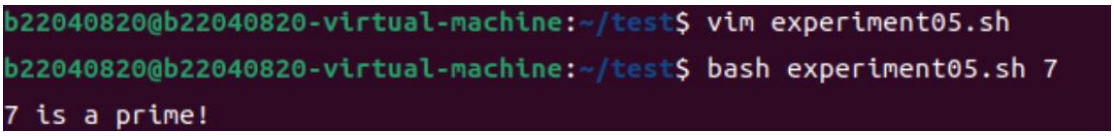


```
b22040820@b22040820-virtual-machine:~/test$ vim experiment04.sh
b22040820@b22040820-virtual-machine:~/test$ bash experiment04.sh
Total of 0 files executable
```

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
```

实验结果如下：



```
b22040820@b22040820-virtual-machine:~/test$ vim experiment05.sh
b22040820@b22040820-virtual-machine:~/test$ bash experiment05.sh 7
7 is a prime!
```