

```
#:~$su - q22010111
Password:
q22010111@lhy-Virtual-Machine:~$ ls
backup.tar.gz  c1.o  c3.c  experiment2-1.sh  experiment2-4.sh  hello2  makefile
c              c2.c  c3.o  experiment2-2.sh  experiment2-5.sh  hello3  others
c1.c          c2.o  demo  experiment2-3.sh  hello1           lihangyu.txt  textfile
```

```
q22010111@lhy-Virtual-Machine:~$ vim experiment2-1.sh
q22010111@lhy-Virtual-Machine:~$ ./experiment2-1.sh 10
Good morning !!
```

```
#!/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
```

```
q22010111@lhy-Virtual-Machine:~$ vim experiment2-2.sh
q22010111@lhy-Virtual-Machine:~$ ./experiment2-2.sh
Enter the first integer:
1
Enter the second integer:
2
1 is less than 2
```

```
#!/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
```

```
q22010111@lhy-Virtual-Machine:~$ vim experiment2-3.sh
q22010111@lhy-Virtual-Machine:~$ ./experiment2-3.sh
-3
```

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

```
q22010111@lhy-Virtual-Machine:~$ vim experiment2-4.sh
q22010111@lhy-Virtual-Machine:~$ ./experiment2-4.sh
Total of 11 files executable
```

```
#!/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
```

```
q22010111@lhy-Virtual-Machine:~$ vim experiment2-5.sh
q22010111@lhy-Virtual-Machine:~$ ./experiment2-5.sh 3
3 is a prime!
```

```
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
```