Experiment 2

use a editor to finishe the following shell scripts, and run them in Linux system.

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
```

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
```

```
jh@jh-virtual-machine:~/other$ chmod u+s 111.sh
jh@jh-virtual-machine:~/other$ ./111.sh
bash: ./111.sh: Permission denied
jh@jh-virtual-machine:~/other$ chmod u+x 111.sh
./djh-virtual-machine:~/other$ ./111.sh
./111.sh: line 3: hour: command not found
./111.sh: line 25: syntax error near unexpected token `newline'
./111.sh: line 25: `Esac'
jh@jh-virtual-machine:~/other$ ./112.21040619jh
Good morining !!
jh@jh-virtual-machine:~/other$
```

3. Find the minimal value in a given list.

```
#!/bin/bash
smallest-10000
```

```
for 1 in 8 2 18 0 -3 87
do
if test $i -lt $smallest
then
smallest-$i
fi
done
echo $smallest
```

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

```
#1/bin/bash
count-0
for 1 in "
do
if test -x $i
then
count-'expr $count + 1'
fi
done
echo Total of $count 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 @ ]
    then
    flag=@
    break
    f1
    j-'expr $j + 1'
    done
    if [ $flag -eq 1 ]
    then
    return 1
    else
    return 0
    f1
    }
    prime $1
```

```
jh@jh-virtual-machine:~/other$ chmod u+x 111.sh
jh@jh-virtual-machine:~/other$ ./111.sh
./111.sh: line 3: hour: command not found
./111.sh: line 25: syntax error near unexpected token `newline'
./111.sh: line 25: `Esac'
jh@jh-virtual-machine:~/other$ ./111.sh
Good morining !!
jh@jh-virtual-machine:~/other$ ./111.sh
Enter the first integer:
Enter the second integer: B22040619jh
1 is less than 2
jh@jh-virtual-machine:~/other$ ./111.sh
./111.sh: line 2: for: command not found
./111.sh: line 3: syntax error near unexpected token `do'
./111.sh: line 3: `do '
jh@jh-virtual-machine:~/other$ ./111.sh
./111.sh: line 2: for: command not found
./111.sh: line 3: syntax error near unexpected token `done'
./111.sh: line 3: `done'
jh@jh-virtual-machine:~/other$ ./111.sh
jh@jh-virtual-machine:~/otherS
```

```
./111.sh: line 3: done
jh@jh-virtual-machine:~/other$ ./111.sh
jh@jh-virtual-machine:~/other$ ./111 B22040619jh
Total of 1 files executable
jh@jh-virtual-machine:~/other$ ./111.sh
expr: non-integer argument
./111.sh: line 9: [: 2: unary operator expected
./111.sh: line 43: syntax error near unexpected token `then'
./111.sh: line 43: ` then '
jh@jh-virtual-machine:~/other$ ./111.sh
expr: non-integer argument
./111.sh: line 5: [: 2: unary operator expected
./111.sh: line 22: syntax error near unexpected token `then'
./111.sh: line 22: ` then '
jh@jh-virtual-machine:~/other$ ./111.sh 5
./111.sh: line 22: syntax error near unexpected token `then'
./111.sh: line 22: ` then '
jh@jh-virtual-machine:~/other$ ./111.sh 5
./111.sh: line 43: syntax error near unexpected token `then'
./111.sh: line 43: ` then '
jh@jh-virtual-machine:~/other$ ./111.sh 5
5 is a prime!
jh@jh-virtual-machine:~/other$
```