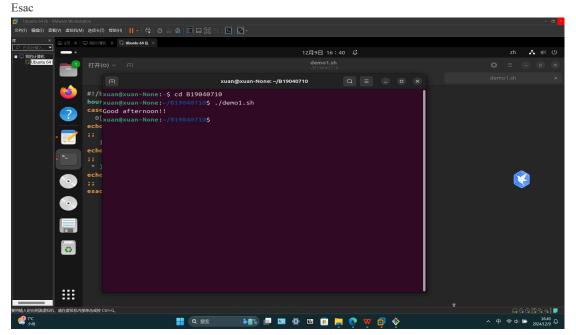
### **Experiment 2**

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 !! "
;;
```



# 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" ]
echo "$first is greater than $second"
elif [ "$first" -lt "$second" ]
echo "$FIRST is less than $second"
echo "$FIRST is equal to $second"
 wan@xuan-None:~/B19040
inter the first integer
                            040710$ ./demo2.sh
.
Enter the second integer
  uan@xuan-None:~/B19040
nter the first integer
 nter the second integer
  wan@xwan-None:-/B19040710$ ./demo2.sh
nter the first integer
 nter the second integer
  uan@xuan-None:~/B19040
nter the first integer
  nter the second integer
 5
/demo2.sh: 第 6 行: [: 5 6:
/demo2.sh: 第 9 行: [: 5 6:
6 is equal to 5
uan@xuan-None:-/B19040710$
```

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#### 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
```

```
xuan@xuan-None:~/B19040710 Q = xuan@xuan-None:~/$ cd B19040710 xuan@xuan-None:~/B19040710$ ./demo3.sh -3 xuan@xuan-None:~/B19040710$
```

## 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

xuan@xuan-None:~/B19040710$ ./demo4.sh

Total of 4 files excutable
xuan@xuan-None:~/B19040710$ ls

王文轩2.txt B19040710.txt demo1.sh demo2.sh demo3.sh demo4.sh

xuan@xuan-None:~/B19040710$
```

## 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` ]
if [ `expr $1 % $j` -eq 0 ]
then
flag=0
break
fi
j = \exp \$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 prime
echo "$1 is not a prime!"
fi
```

```
xuan@xuan-None:~/B19040710 Q = - - ×

xuan@xuan-None:~$ cd B19040710$ ./demo5.sh 99

99 is not a prime
xuan@xuan-None:~/B19040710$ ./demo5.sh 1

1 is a prime!
xuan@xuan-None:~/B19040710$ ./demo5.sh 2

2 is a prime!
xuan@xuan-None:~/B19040710$
```