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
```

操作截图:

```
#!/bin/bash
hour=`date +%H`
case $hour in
知中心 ] | 1[0-1] )
echo "Good morining !!"
;;
1[2-7] )
echo "Good afternoon !!"
;;
* )
echo "Good evening !! "
;;
esac
```

regulus@regulus-VMware-Virtual-Platform:~/桌面/Linux\$ bash work1.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
```

操作截图:

```
#!/bin/sh
echo "Enter the first integer:"
read first
echo "Enter the second integer:"
read second

"$first" -gt "$second" ]

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
```

```
regulus@regulus-VMware-Virtual-Platform:~/桌面/Linux$ bash work2.sh
Enter the first integer:
10
短用中心 the second integer:
22
10 is less than 22
```

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
```

操作截图:

```
#!/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
```

regulus@regulus-VMware-Virtual-Platform:~/桌面/Linux\$ bash work3.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
```

操作截图:

```
#!/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
```

regulus@regulus-VMware-Virtual-Platform:~/桌面/Linux\$ bash work4.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` ]
if [ `expr $1 % $j` -eq 0 ]
then
 flag=0
break
 j=\ensuremath{`expr\ \$j\ +\ 1`}
done
if [ $flag -eq 1 ]
then
return 1
else
return 0
}
prime $1
```

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

操作截图:

```
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!"
```

regulus@regulus-VMware-Virtual-Platform:~/桌面/Linux\$ bash work5.sh 23 23 is a prime!