1. Obtain the system time, and check whether it is in the morning, afternoon, or evening.

代码:

```
#!/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.

代码:

```
#!/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
```

3. Find the minimal value in a given list

代码:

```
#!/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
```

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

代码:

```
#!/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
```

5. Check whether a given number is a prime, you have to write a function, and call the function.

代码:

```
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
结果:

```
cf@cf-virtual-machine:~/Linux/Experiment_2$ ./2_1.sh
Good morining !!
cf@cf-virtual-machine:~/Linux/Experiment_2$ ./2_2.sh
Enter the first integer:
2
Enter the second integer:
6
2 is less than 6
cf@cf-virtual-machine:~/Linux/Experiment_2$ ./2_3.sh
-3
cf@cf-virtual-machine:~/Linux/Experiment_2$ ./2_4.sh
Total of 5 files executable
cf@cf-virtual-machine:~/Linux/Experiment_2$ ./2_5.sh
Enter a number:
7
7 is a prime!
```