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
```

```
c@c-virtual-machine:~/other$ bash 1
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
```

```
c@c-virtual-machine:~/other$ bash 2
Enter the first integer:
4
Enter the second integer:
5
 is less than 5
```

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
```

```
c@c-virtual-machine:~/other$ bash 4
Total of 0 files executable
```

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
```

```
c@c-virtual-machine:~/other$ bash 3
-3
```

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 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
```

```
c@c-virtual-machine:~/other$ bash 5 29
29 is a prime!
```