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"
```

```
## /bin/bash

## ccho "Enter the first integer:"

## read first

## ccho "Enter the second integer:"

## read first

## second integer:"

## second integer:

## s
```

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
```

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
```

```
## /bin/bash

Count=0

For i in *

B22040514@yyu-virtual-machine:-/lab2$ ls

test1.sh test2.sh test3.sh test4.sh

B22040514@yyu-virtual-machine:-/lab2$ chmod u+x test4.sh

B22040514@yyu-virtual-machine:-/lab2$ chmod u+x test4.sh

B22040514@yyu-virtual-machine:-/lab2$ chmod u+x test4.sh

B22040514@yyu-virtual-machine:-/lab2$ chmod u+x test4.sh

B22040514@yyu-virtual-machine:-/lab2$

### Count='expr $count + 1'

### done

##
```

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=`expr $j + 1`
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
```