

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

```
GNU nano 8.3 script1.sh
#!/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

B22040104谢淡恬@ubuntu64:~/exp_2$ nano script1.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ chmod u+x script1.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ ./script1.sh
Good evening !!
B22040104谢淡恬@ubuntu64:~/exp_2$
```

2. Input two number, check which one is greater, and output the result.

```
GNU nano 8.3 script2.sh
#!/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
```

```

B22040104谢淡恬@ubuntu64:~/exp_2$ nano script2.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ chmod u+x script2.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ ./script2.sh
Enter the first integer:
65
Enter the second integer:
32
65 is greater than 32
B22040104谢淡恬@ubuntu64:~/exp_2$

```

3. Find the minimal value in a given list.

```

GNU nano 8.3 script3.sh
#!/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

```

```

B22040104谢淡恬@ubuntu64:~/exp_2$ nano script3.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ chmod u+x script3.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ ./script3.sh
-3
B22040104谢淡恬@ubuntu64:~/exp_2$

```

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

```

GNU nano 8.3 script4.sh
#!/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

```

```

B22040104谢淡恬@ubuntu64:~/exp_2$ nano script4.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ chmod u+x script4.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ ./script4.sh
Total of 4 files executable
B22040104谢淡恬@ubuntu64:~/exp_2$ ls
script1.sh script2.sh script3.sh script4.sh
B22040104谢淡恬@ubuntu64:~/exp_2$

```

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

```

GNU nano 8.3 script5.sh
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

```

```

B22040104谢淡恬@ubuntu64:~/exp_2$ nano script5.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ chmod u+x script5.sh
B22040104谢淡恬@ubuntu64:~/exp_2$ ./script5.sh 17
17 is a prime!
B22040104谢淡恬@ubuntu64:~/exp_2$ ./script5.sh 65
65 is not a prime!
B22040104谢淡恬@ubuntu64:~/exp_2$

```