南京邮电大学

实 验 报 告

（ 2024/ 2025 学年 第 一 学期）

课程名称	GNU/Linux 编程
实验名称	实验二
实验时间	2024 年 11 月 15 日
指导单位	计算机学院 网络空间安全系
指导教师	王磊

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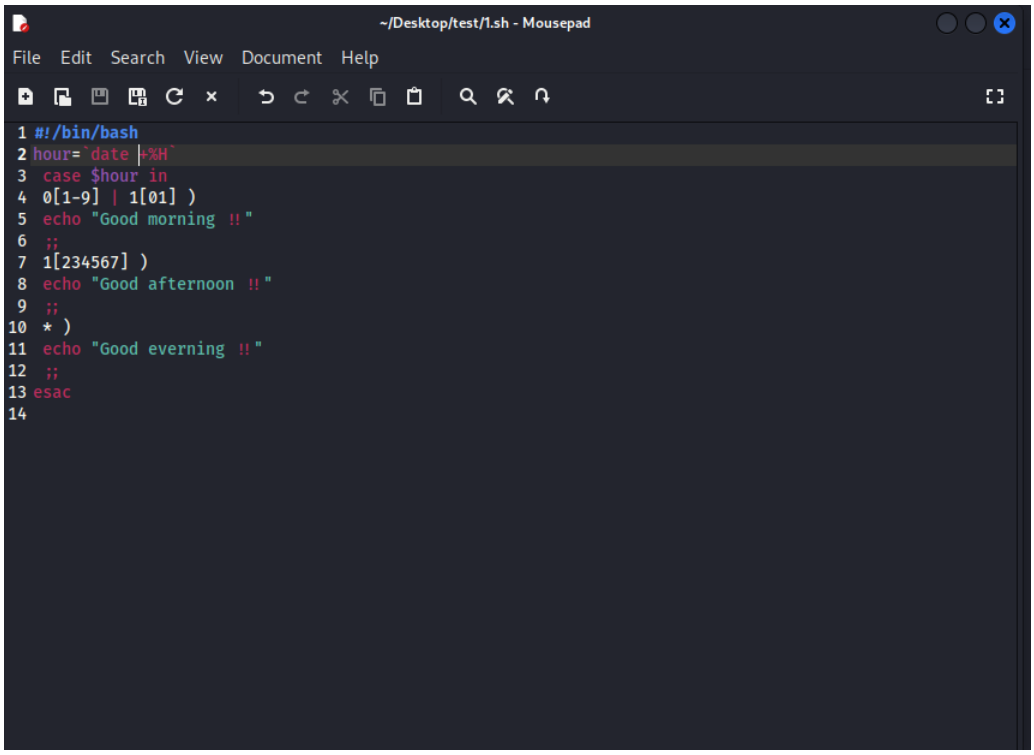
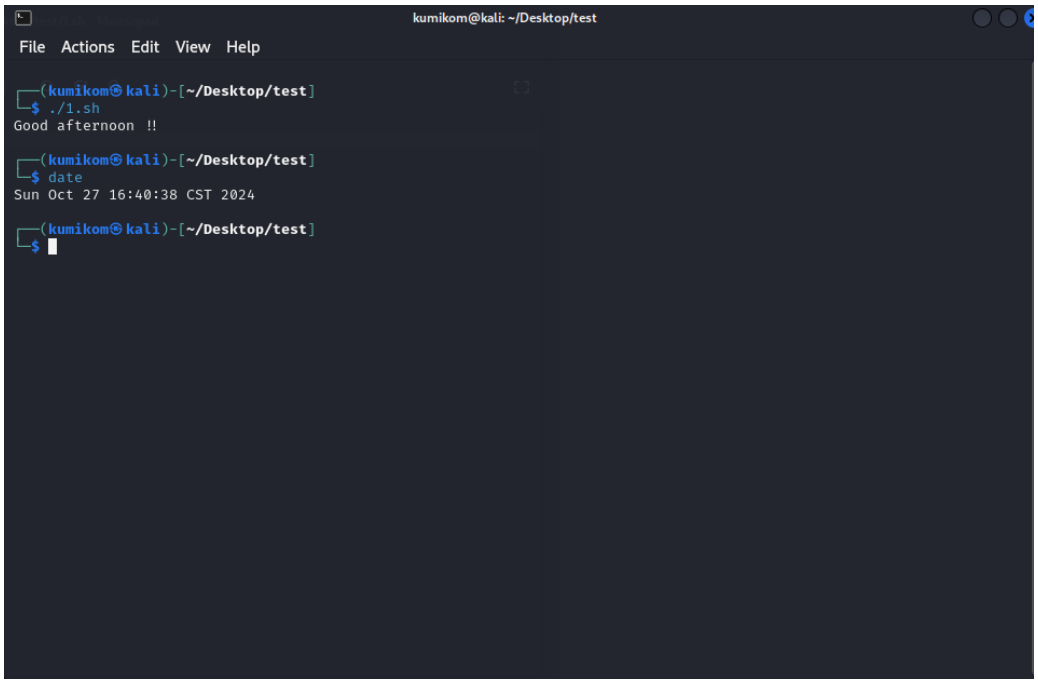
学院(系)	计算机学院	专 业	信息安全

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



注：esca 的 E 不应该大写，=两边没有空格；

Result:



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

~/Desktop/test/1.sh - Mousepad

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```
#!/bin/bash
echo "Enter the first integer"
read first
echo "Enter the second integer"
read second
if [ "$first" -gt "$second" ]
then
        echo "$first is greater then $second"
elif [ "$first" -lt "$second" ]
        then
                echo "$first is less then $second"
        else
                echo "$first is equal to $second"
fi

```

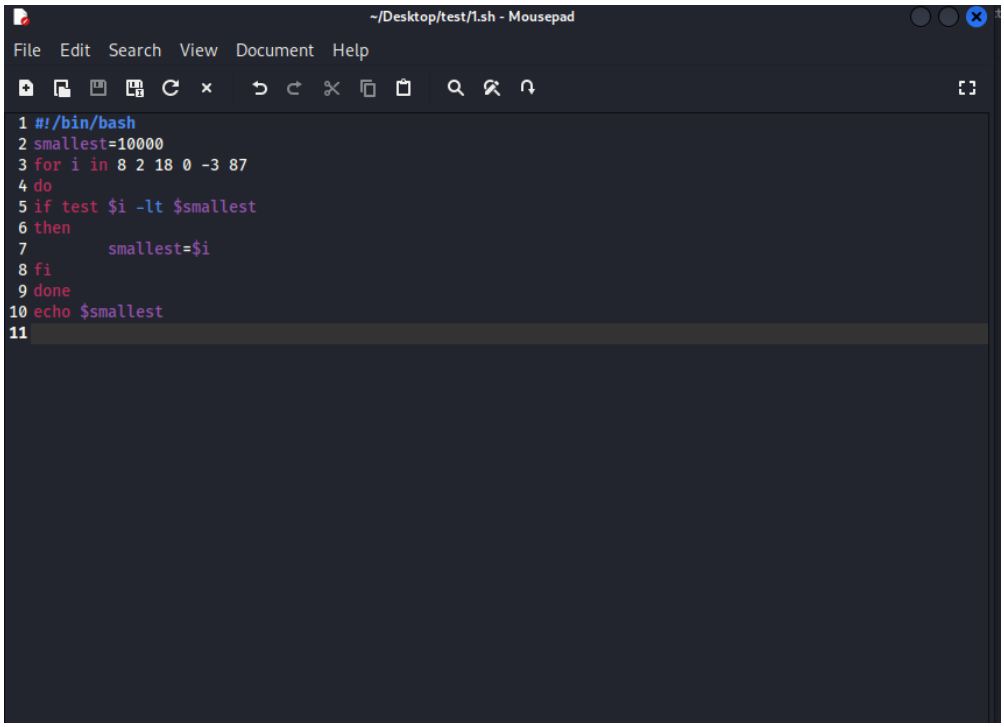
Result:

kumikom@kali: ~/Desktop/test

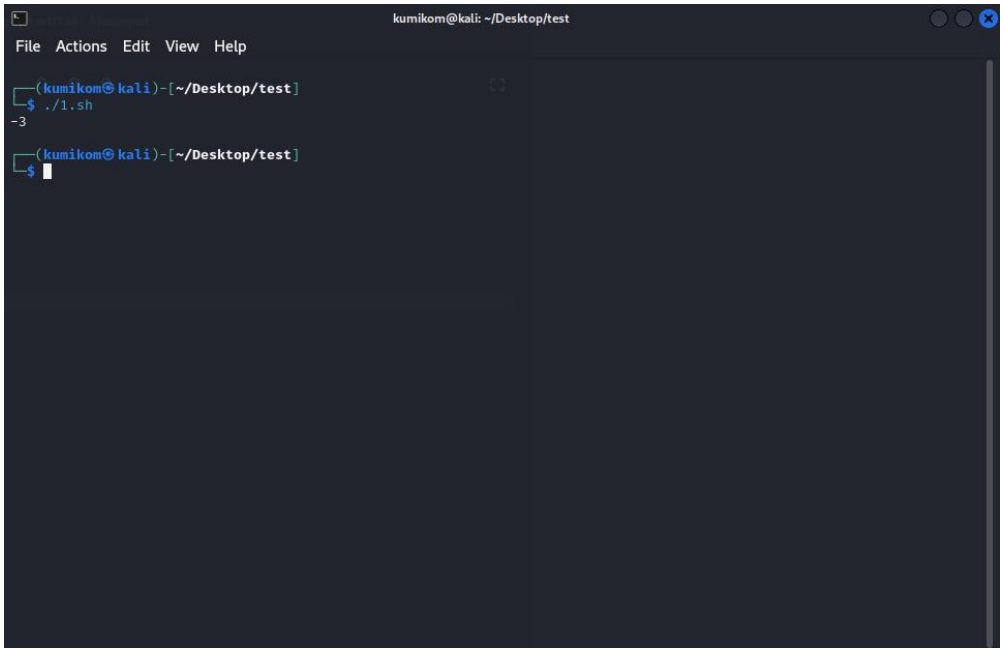
File Actions Edit View Help

```
┌──(kumikom㉿kali)-[~/Desktop/test]
└─$ ./1.sh
Enter the first integer
5
Enter the second integer
8
5 is less then 8

┌──(kumikom㉿kali)-[~/Desktop/test]
└─$ ./1.sh
Enter the first integer
7
Enter the second integer
7
7 is equal to 7

┌──(kumikom㉿kali)-[~/Desktop/test]
└─$ ./1.sh
Enter the first integer
4
Enter the second integer
3
4 is greater then 3

┌──(kumikom㉿kali)-[~/Desktop/test]
└─$
```

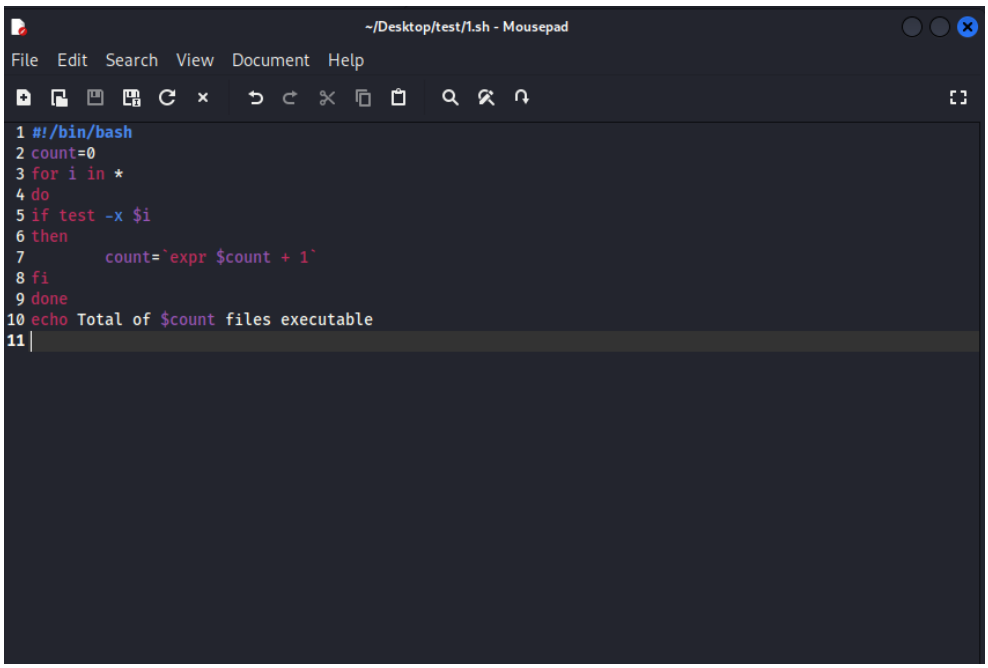
3. Find the minimal value in a given list.



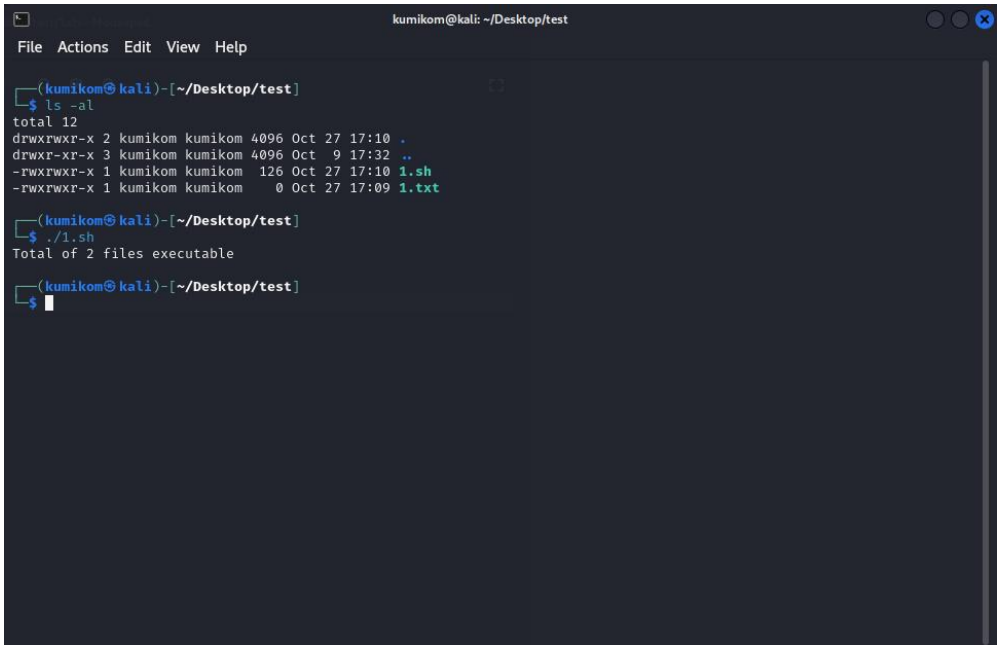
Result：



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



Result:



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

~/Desktop/test/1.sh - Mousepad

File Edit Search View Document Help

```
#!/bin/bash
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
```

Result:

kumikom@kali: ~/Desktop/test

File Actions Edit View Help

```
┌──(kumikom㉿kali)-[~/Desktop/test]
└─$ ./1.sh 13
13 is a prime!

┌──(kumikom㉿kali)-[~/Desktop/test]
└─$ ./1.sh 16
16 is not a prime!

┌──(kumikom㉿kali)-[~/Desktop/test]
└─$
```