2-1

Open ▾ | e2-1.sh ~ | Save

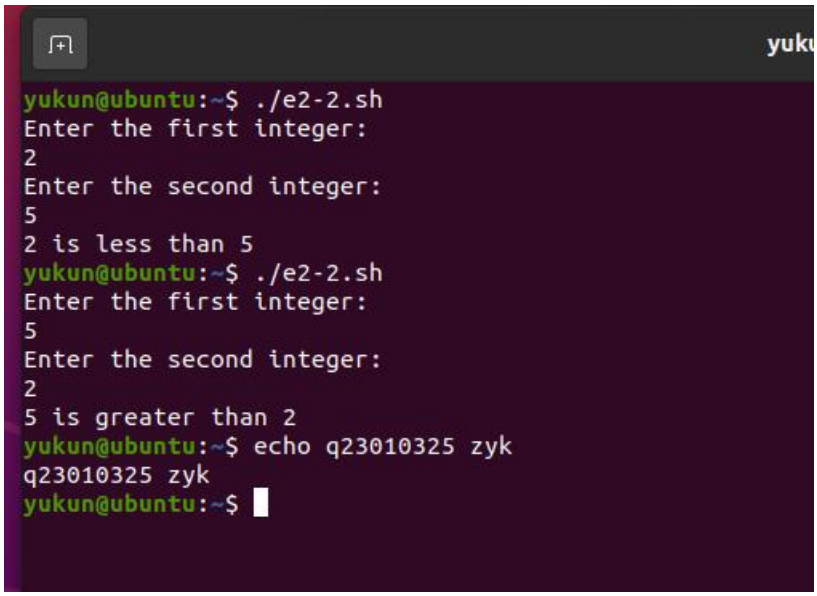
```
#!/bin/bash

# 获取当前小时（24小时制）
hour=$(date +%H)

# 根据小时判断时间段
case $hour in
    0[0-9] | 1[0-1] )       # 00点-11点
        echo "Good morning Q23010325ZYK！！"
        ;;
    1[2-7] )                # 12点-17点
        echo "Good afternoon Q23010325ZYK！！"
        ;;
    * )                     # 18点-23点
        echo "Good evening Q23010325ZYK！！"
        ;;
esac
```

Dec 11 07:24 ●

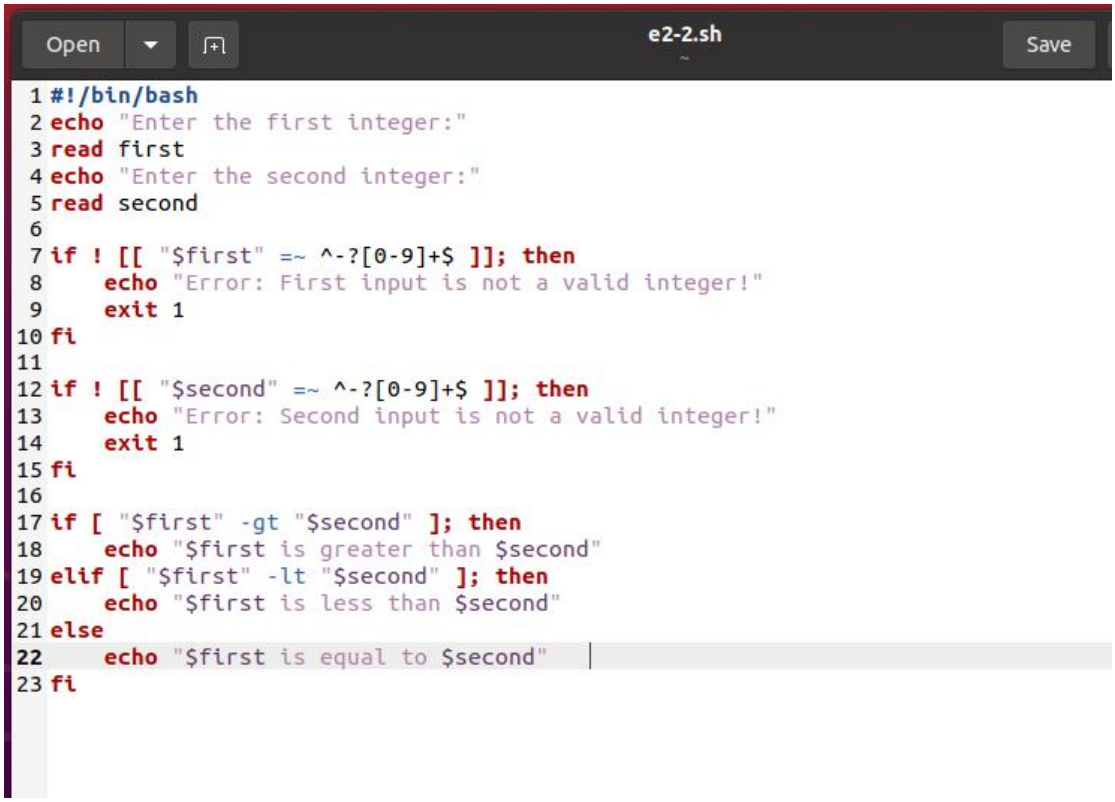
yukun@ubuntu: ~

```
yukun@ubuntu:~$ ls -la
total 108
drwxr-xr-x 18 yukun yukun 4096 Dec 11 07:22 .
drwxr-xr-x  3 root  root  4096 Nov 20 19:17 ..
-rw-rw-r--  1 yukun yukun  259 Dec  4 18:19 backup.tar.gz
-rw-------  1 yukun yukun 1031 Dec 11 07:22 .bash_history
-rw-r--r--  1 yukun yukun  220 Nov 20 07:17 .bash_logout
-rw-r--r--  1 yukun yukun 3771 Nov 20 07:17 .bashrc
drwxrwxr-x 13 yukun yukun 4096 Nov 20 07:26 .cache
drwx------ 13 yukun yukun 4096 Nov 20 18:42 .config
-r-srwS--T  1 yukun yukun    0 Nov 21 20:25 demo
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Desktop
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Documents
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Downloads
-rwxrwxr-x  1 yukun yukun  417 Dec 11 07:22 e2-1.sh
drwx------  3 yukun yukun 4096 Nov 20 07:24 .gnupg
drwxr-xr-x  3 yukun yukun 4096 Nov 20 07:24 .local
drwx------  4 yukun yukun 4096 Nov 20 07:26 .mozilla
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Music
drwxrwxr-x  2 yukun yukun 4096 Dec  4 18:15 others
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Pictures
-rw-r--r--  1 yukun yukun  807 Nov 20 07:17 .profile
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Public
drwxrwxr-x  2 yukun yukun 4096 Nov 20 18:30 q23010325
-rw-rw-r--  1 yukun yukun   12 Nov 20 18:38 q23010325.txt
drwx------  3 yukun yukun 4096 Nov 20 07:26 snap
-rw-r--r--  1 yukun yukun    0 Nov 20 18:53 .sudo_as_admin_successful
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Templates
-rw-rw-r--  1 yukun yukun  138 Dec  4 18:41 textfile
drwxr-xr-x  2 yukun yukun 4096 Nov 20 07:24 Videos
-rw-rw-r--  1 yukun yukun   12 Nov 20 18:39 Zyukun2.txt
yukun@ubuntu:~$ chmod +x e2-1.sh
yukun@ubuntu:~$ ./e2-1.sh
Good morning Q23010325ZYK！！
yukun@ubuntu:~$
```

2-2



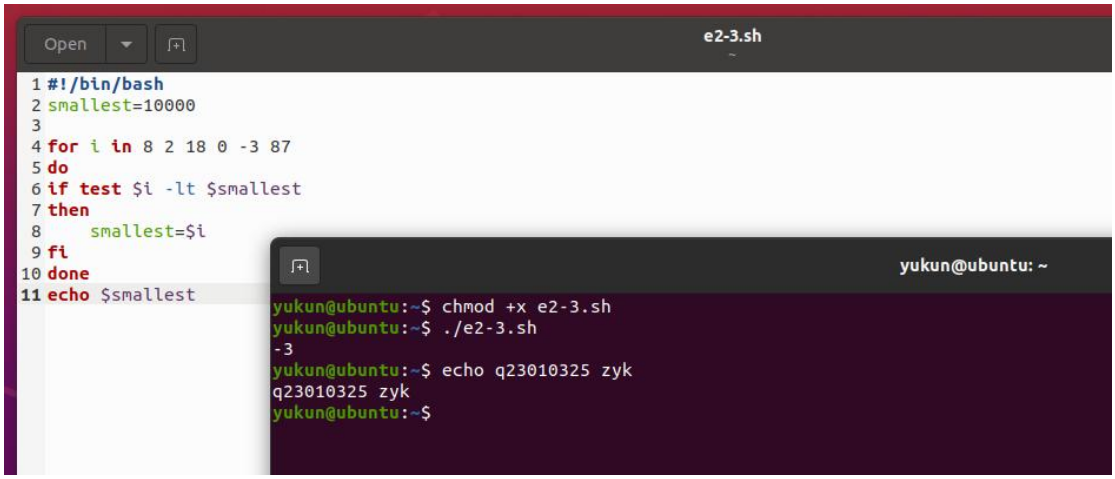
```
yukun@ubuntu:~$ ./e2-2.sh
Enter the first integer:
2
Enter the second integer:
5
2 is less than 5
yukun@ubuntu:~$ ./e2-2.sh
Enter the first integer:
5
Enter the second integer:
2
5 is greater than 2
yukun@ubuntu:~$ echo q23010325 zyk
q23010325 zyk
yukun@ubuntu:~$
```



Open — e2-2.sh — Save

```
#!/bin/bash
echo "Enter the first integer:"
read first
echo "Enter the second integer:"
read second

if ! [[ "$first" =~ ^-?[0-9]+$ ]]; then
    echo "Error: First input is not a valid integer!"
    exit 1
fi

if ! [[ "$second" =~ ^-?[0-9]+$ ]]; then
    echo "Error: Second input is not a valid integer!"
    exit 1
fi

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
```

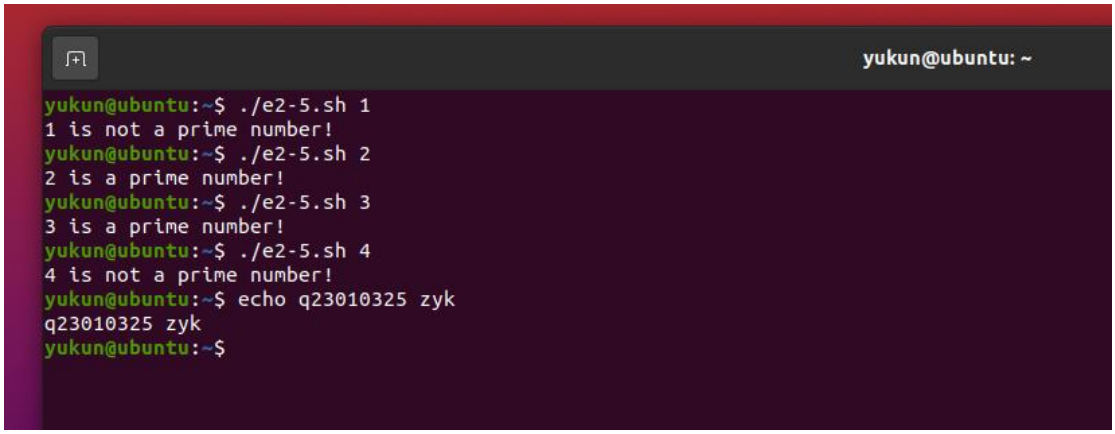
2-3


Open
e2-3.sh
1 #!/bin/bash
2 smallest=10000
3
4 for i in 8 2 18 0 -3 87
5 do
6 if test $i -lt $smallest
7 then
8 smallest=$i
9 fi
10 done
11 echo $smallest
yukun@ubuntu: ~
yukun@ubuntu:~$ chmod +x e2-3.sh
yukun@ubuntu:~$ ./e2-3.sh
-3
yukun@ubuntu:~$ echo q23010325 zyk
q23010325 zyk
yukun@ubuntu:~$

2-4


yukun@ubuntu: ~
yukun@ubuntu:~$ #!/bin/bash
yukun@ubuntu:~$ # Calculate the number of executable files in the current directory
yukun@ubuntu:~$
yukun@ubuntu:~$ count=0
yukun@ubuntu:~$ for i in *
> do
> if [-x "$i"] && [-f "$i"]
> then
> ((count++)) # 或者 count=$((count + 1))
> fi
> done
yukun@ubuntu:~$
yukun@ubuntu:~$ echo "Total of $count files executable"
Total of 3 files executable
yukun@ubuntu:~$ echo q23010325 zyk
q23010325 zyk
yukun@ubuntu:~$

2-5


yukun@ubuntu: ~
yukun@ubuntu:~$ ./e2-5.sh 1
1 is not a prime number!
yukun@ubuntu:~$ ./e2-5.sh 2
2 is a prime number!
yukun@ubuntu:~$ ./e2-5.sh 3
3 is a prime number!
yukun@ubuntu:~$ ./e2-5.sh 4
4 is not a prime number!
yukun@ubuntu:~$ echo q23010325 zyk
q23010325 zyk
yukun@ubuntu:~$

Open

e2-5.sh

```bash
#!/bin/bash
prime() {
    local n=$1
    local flag=1
    if [ $n -lt 2 ]; then
        return 1
    fi
    if [ $n -eq 2 ]; then
        return 0
    fi
    if [ $((n % 2)) -eq 0 ]; then
        return 1
    fi
    local i=3
    while [ $((i * i)) -le $n ]; do
        if [ $((n % i)) -eq 0 ]; then
            return 1
        fi
        i=$((i + 2))
    done
    return 0
}

if [ $# -ne 1 ]; then
    echo "Usage: $0 <number>"
    exit 1
fi

if ! [[ $1 =~ ^[0-9]+$ ]]; then
    echo "Error: Please enter a positive integer"
    exit 1
fi
prime "$1"
result=$?

if [ $result -eq 0 ]; then
    echo "$1 is a prime number!"
else
    echo "$1 is not a prime number!"
fi
```