净点都委长灣 实验报告

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专			业	信息安全
学	生	姓	名	潘韬
班	级	学	号	B22041622
抬	导	教	师	干磊

Experiment 2

use a editor to finishe the following shell scripts, and run them in Linux system.

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
```

```
pt@pt-VMware-Virtual-Platform:~/桌面$ nano greet.sh
pt@pt-VMware-Virtual-Platform:~/桌面$ chmod +x greet.sh
pt@pt-VMware-Virtual-Platform:~/桌面$ ./greet.sh
Good afternoon!!
pt@pt-VMware-Virtual-Platform:~/桌面$
```

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
```

```
pt@pt-VMware-Virtual-Platform:~/桌面$ nano great.sh
pt@pt-VMware-Virtual-Platform:~/桌面$ chmod +x great.sh
```

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
```

```
pt@pt-VMware-Virtual-Platform:~/桌面$ nano min.sh
pt@pt-VMware-Virtual-Platform:~/桌面$ chmod +x min.sh
pt@pt-VMware-Virtual-Platform:~/桌面$ ./min.sh
0#!/bin/bash
0
```

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

pt@pt-VMware-Virtual-Platform:-/桌面$ nano calculate.sh

pt@pt-VMware-Virtual-Platform:-/桌面$ ./calculate.sh
```

5. Check whether a given number is a prime, you have to

write a function, and call the function.

Total of 7 files are executable

```
prime( )
{
flag=1
j=2
```

```
flag=0
break
fi
j=\ensuremath{`expr\ \$j\ +\ 1`}
done
if [ $flag -eq 1 ]
then
return 1
else
return 0
fi
prime $1
pt@pt-VMware-Virtual-Platform:~/桌面$ nano prime.sh
pt@pt-VMware-Virtual-Platform:~/桌面$ chomd +x prime.sh
找不到命令 "chomd", 您的意思是:
   "chmod" 命令来自 Debian 软件包 coreutils (9.4-2ubuntu2)
尝试 sudo apt install <deb name>
pt@pt-VMware-Virtual-Platform:-/桌面$ chmod +x prime.sh
pt@pt-VMware-Virtual-Platform:~/桌面$ ./prime.sh
Usage: ./prime.sh <number>
pt@pt-VMware-Virtual-Platform:-/桌面$ nano prime.sh
pt@pt-VMware-Virtual-Platform:~/ \(\frac{1}{2}\) \(\begin{align*} \text{chmod} +x \\ \text{prime.sh} \end{align*}
pt@pt-VMware-Virtual-Platform:~/桌面$ ./prime.sh
Usage: ./prime.sh number
pt@pt-VMware-Virtual-Platform:-/桌面$ ./prime.sh -7
-7 is a prime!
pt@pt-VMware-Virtual-Platform:~/桌面$ ./prime.sh 7
7 is a prime!
pt@pt-VMware-Virtual-Platform:~/桌面$ ./prime.sh 9
9 is not a prime!
```

while [\$j -le `expr \$1 / 2`]

if [`expr \$1 % \$j` -eq 0]