

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

yy@DESKTOP-JAKN2L5:~$ vim test.sh
yy@DESKTOP-JAKN2L5:~$ ./test.sh
Good afternoon !!
```

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
```

```
yy@DESKTOP-JAKN2L5:~$ ./test2.sh
Enter the first integer:
3
Enter the second integer:
6
3 is less than 6
```

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
```

```
yy@DESKTOP-JAKN2L5:~$ vim test.sh
yy@DESKTOP-JAKN2L5:~$ ./test.sh
-3
```

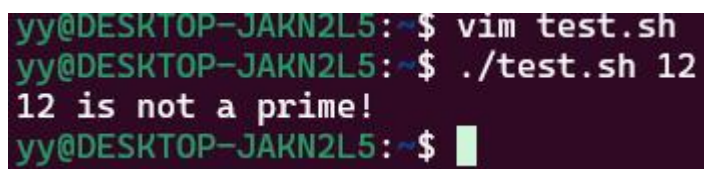
4. Calculate the number of executive file in the current directory.

```
#!/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
```

```
yy@DESKTOP-JAKN2L5:~$ vim test.sh
yy@DESKTOP-JAKN2L5:~$ ./test.sh
Total of 3 files executable
```

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` ]
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
```

A terminal window with a dark background and green text. The prompt is 'yy@DESKTOP-JAKN2L5:~\$'. The user enters 'vim test.sh'. The prompt changes to 'yy@DESKTOP-JAKN2L5:~\$' and the user enters './test.sh 12'. The output is '12 is not a prime!'. The prompt returns to 'yy@DESKTOP-JAKN2L5:~\$' and the user enters a space followed by a cursor.

```
yy@DESKTOP-JAKN2L5:~$ vim test.sh
yy@DESKTOP-JAKN2L5:~$ ./test.sh 12
12 is not a prime!
yy@DESKTOP-JAKN2L5:~$
```