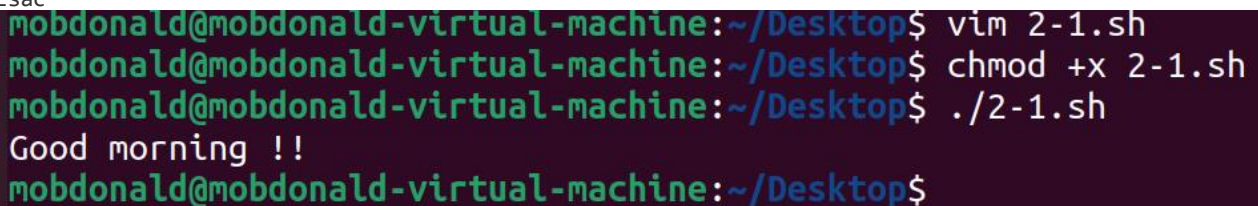


Experiment 2

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
```



```
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ vim 2-1.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ chmod +x 2-1.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ ./2-1.sh
Good morning !!
mobdona1d@mobdona1d-virtual-machine:~/Desktop$
```

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
```

```
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ chmod +x 2-2.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ ./2-2.sh
Enter the first integer:
234
Enter the second integer:
765
234 is less than 765
mobdona1d@mobdona1d-virtual-machine:~/Desktop$
```

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
```

```
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ vim 2-3.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ chmod +x 2-3.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ ./2-3.sh
-3
mobdona1d@mobdona1d-virtual-machine:~/Desktop$
```

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
```

```
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ vim 2-4.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ chmod +x 2-4.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ ./2-4.sh
./2-4.sh: line 5: test: New: binary operator expected
Total of 12 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
```

```
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ vim 2-5.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ chmod +x 2-5.sh
mobdona1d@mobdona1d-virtual-machine:~/Desktop$ ./2-5.sh
7
7 is a prime !
```