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
```

```
user@ubantu-mn-desktop:~/Desktop$ chmod +x e11.sh
user@ubantu-mn-desktop:~/Desktop$ ./e11.sh
date: extra operand ‘%H’
Try 'date --help' for more information.
./e11.sh: line 13: syntax error near unexpected token `newline'
./e11.sh: line 13: `Esac'
user@ubantu-mn-desktop:~/Desktop$ ^C
user@ubantu-mn-desktop:~/Desktop$ ./e11.sh
Good morning!!
```

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
```

```
user@ubantu-mn-desktop:~/Desktop$ chmod +x e2.sh
user@ubantu-mn-desktop:~/Desktop$ ./e2.sh
Enter the first integer:
1
Enter the second integer:
2
1 is less than 2
user@ubantu-mn-desktop:~/Desktop$ ./e2.sh
Enter the first integer:
3
Enter the second integer:
3
3 is equal to 3
```

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
```

```
user@ubantu-mn-desktop:~/Desktop$ touch e3.sh
user@ubantu-mn-desktop:~/Desktop$ chmod +x e3.sh
user@ubantu-mn-desktop:~/Desktop$ chmod +x e3.sh
user@ubantu-mn-desktop:~/Desktop$ ./e3.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
```

```
user@ubantu-mn-desktop:~/Desktop$ touch e4.sh
user@ubantu-mn-desktop:~/Desktop$ chmod +x e4.sh
user@ubantu-mn-desktop:~/Desktop$ ./e4.sh
expr: syntax error: unexpected argument ‘+1’
expr: syntax error: unexpected argument ‘+1’
Total of  files executable
user@ubantu-mn-desktop:~/Desktop$ ./e4.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
```

```
user@ubantu-mn-desktop:~/Desktop$ chmod +x e5.sh
user@ubantu-mn-desktop:~/Desktop$ ./e5.sh
Input a integer
5
5 is a prime!
```