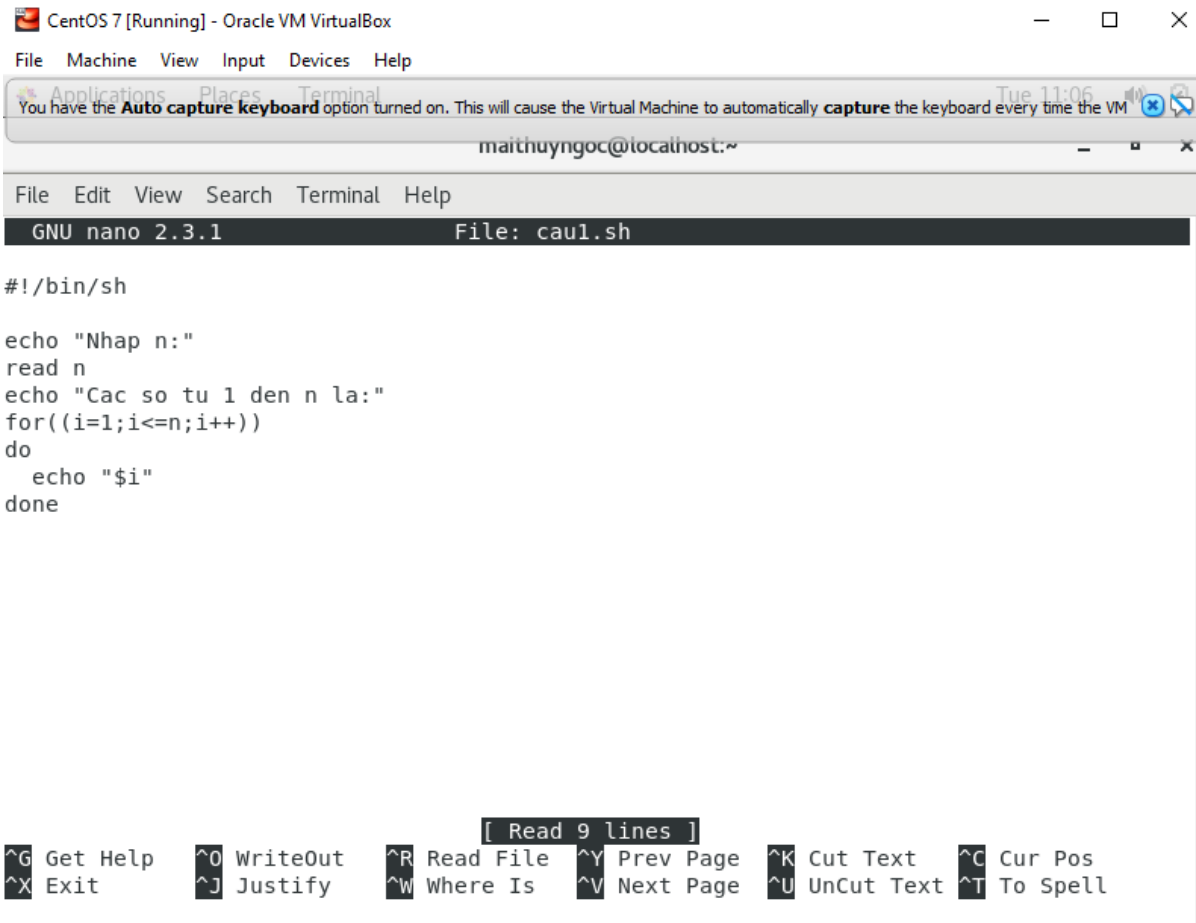


BÀI TẬP THỰC HÀNH 2: LẬP TRÌNH SHELL TRONG LINUX

Câu 1: Viết chương trình nhập vào số tự nhiên n, in tất cả các số từ 1 đến n.



```
CentOS 7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
You have the Auto capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the keyboard every time the VM
maithuyngoc@localhost:~

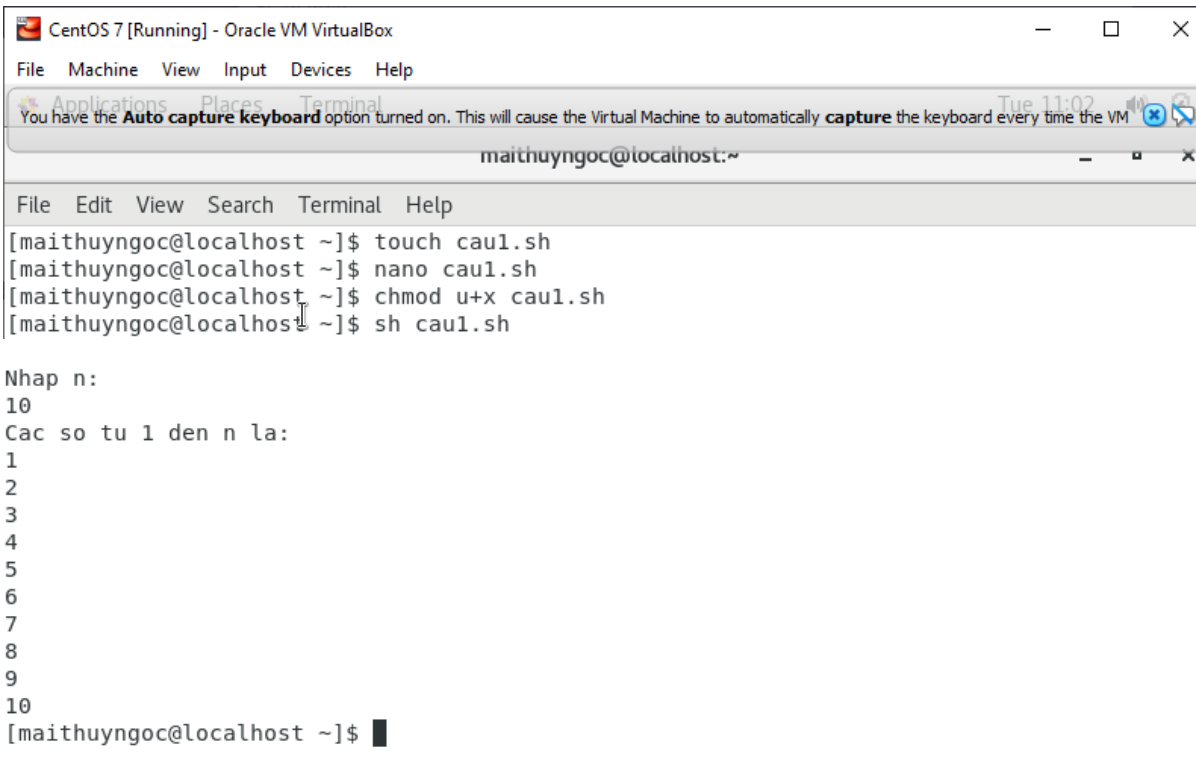
File Edit View Search Terminal Help
GNU nano 2.3.1 File: cau1.sh

#!/bin/sh

echo "Nhap n:"
read n
echo "Cac so tu 1 den n la:"
for((i=1;i<=n;i++))
do
    echo "$i"
done

^G Get Help    ^O WriteOut    ^R Read File   ^Y Prev Page   ^K Cut Text    ^C Cur Pos
^X Exit        ^J Justify     ^W Where Is   ^V Next Page   ^U UnCut Text  ^T To Spell

[ Read 9 lines ]
```



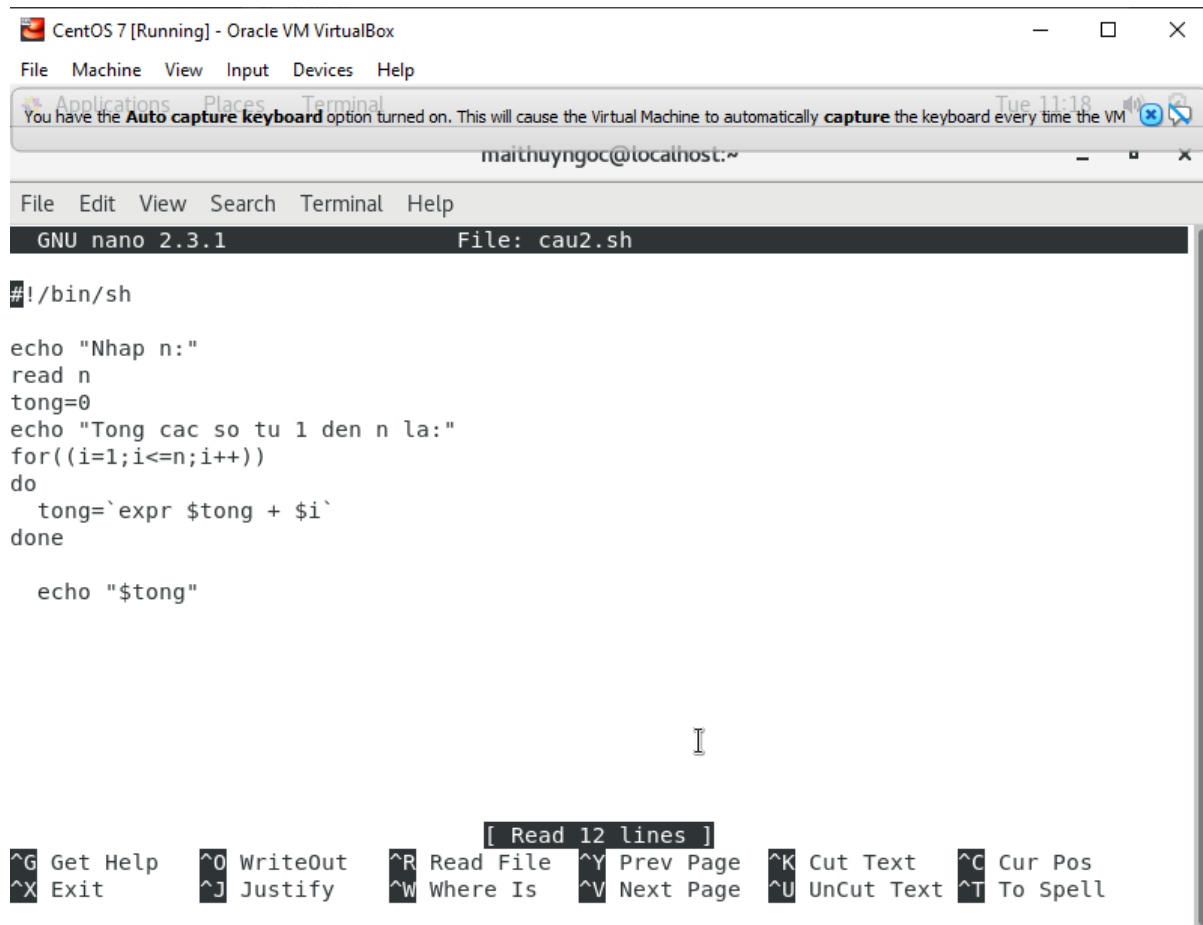
```
CentOS 7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
You have the Auto capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the keyboard every time the VM
maithuyngoc@localhost:~

File Edit View Search Terminal Help

[maithuyngoc@localhost ~]$ touch cau1.sh
[maithuyngoc@localhost ~]$ nano cau1.sh
[maithuyngoc@localhost ~]$ chmod u+x cau1.sh
[maithuyngoc@localhost ~]$ sh cau1.sh

Nhap n:
10
Cac so tu 1 den n la:
1
2
3
4
5
6
7
8
9
10
[maithuyngoc@localhost ~]$
```

Câu 2: Viết chương trình tính tổng $s = 1 + 2 + 3 + \dots + n$ với n nhập từ bàn phím.



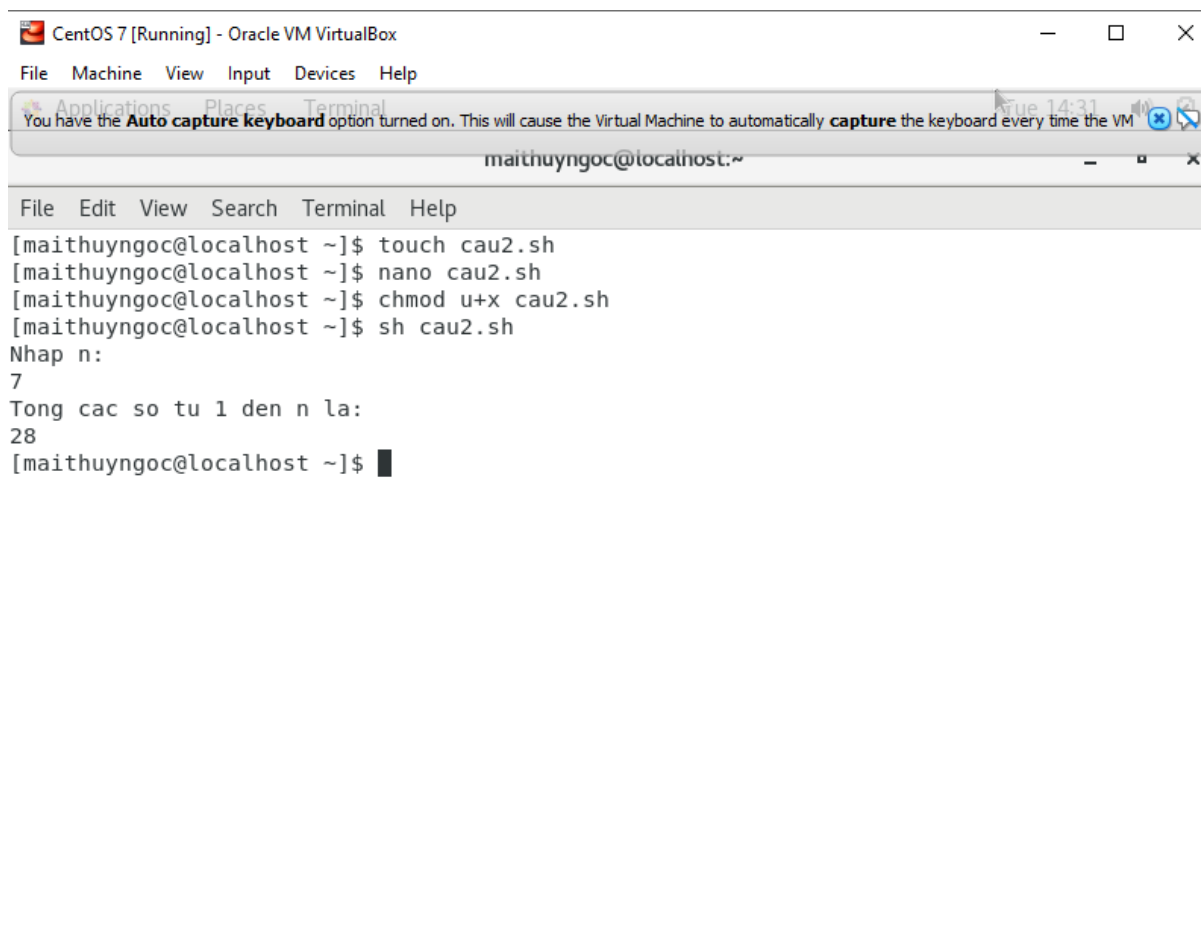
```
CentOS 7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
You have the Auto capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the keyboard every time the VM
maithuynhoc@localhost:~
File Edit View Search Terminal Help
GNU nano 2.3.1 File: cau2.sh

#!/bin/sh

echo "Nhap n:"
read n
tong=0
echo "Tong cac so tu 1 den n la:"
for((i=1;i<=n;i++))
do
    tong=`expr $tong + $i`
done

    echo "$tong"

[ Read 12 lines ]
^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page ^U UnCut Text ^T To Spell
```



```
CentOS 7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
You have the Auto capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the keyboard every time the VM
maithuyngoc@localhost:~
File Edit View Search Terminal Help
[maithuyngoc@localhost ~]$ touch cau2.sh
[maithuyngoc@localhost ~]$ nano cau2.sh
[maithuyngoc@localhost ~]$ chmod u+x cau2.sh
[maithuyngoc@localhost ~]$ sh cau2.sh
Nhap n:
7
Tong cac so tu 1 den n la:
28
[maithuyngoc@localhost ~]$
```

Câu 3: Viết chương trình tính tổng $s = 1 + 3 + 5 + \dots + (2n - 1)$ với n nhập từ bàn phím.

CentOS 7 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

You have the **Auto capture keyboard** option turned on. This will cause the Virtual Machine to automatically **capture** the keyboard every time the VM

maithuyngoc@localhost:~

File Edit View Search Terminal Help

GNU nano 2.3.1 File: cau3.sh

```
#!/bin/sh

echo "Nhap n:"
read n
tong=0
tam=0
echo "Tong cac so 1 den 2n-1 la:"

for((i=1;i<=n;i++))
do
    tam1=`expr 2 \* $i`
    tam2=`expr $tam1 - 1`
    tong=`expr $tong + $tam2`
done

echo "$tong"
```

[Read 16 lines]

^G Get Help	^O WriteOut	^R Read File	^Y Prev Page	^K Cut Text	^C Cur Pos
^X Exit	^J Justify	^W Where Is	^V Next Page	^U UnCut Text	^T To Spell

CentOS 7 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

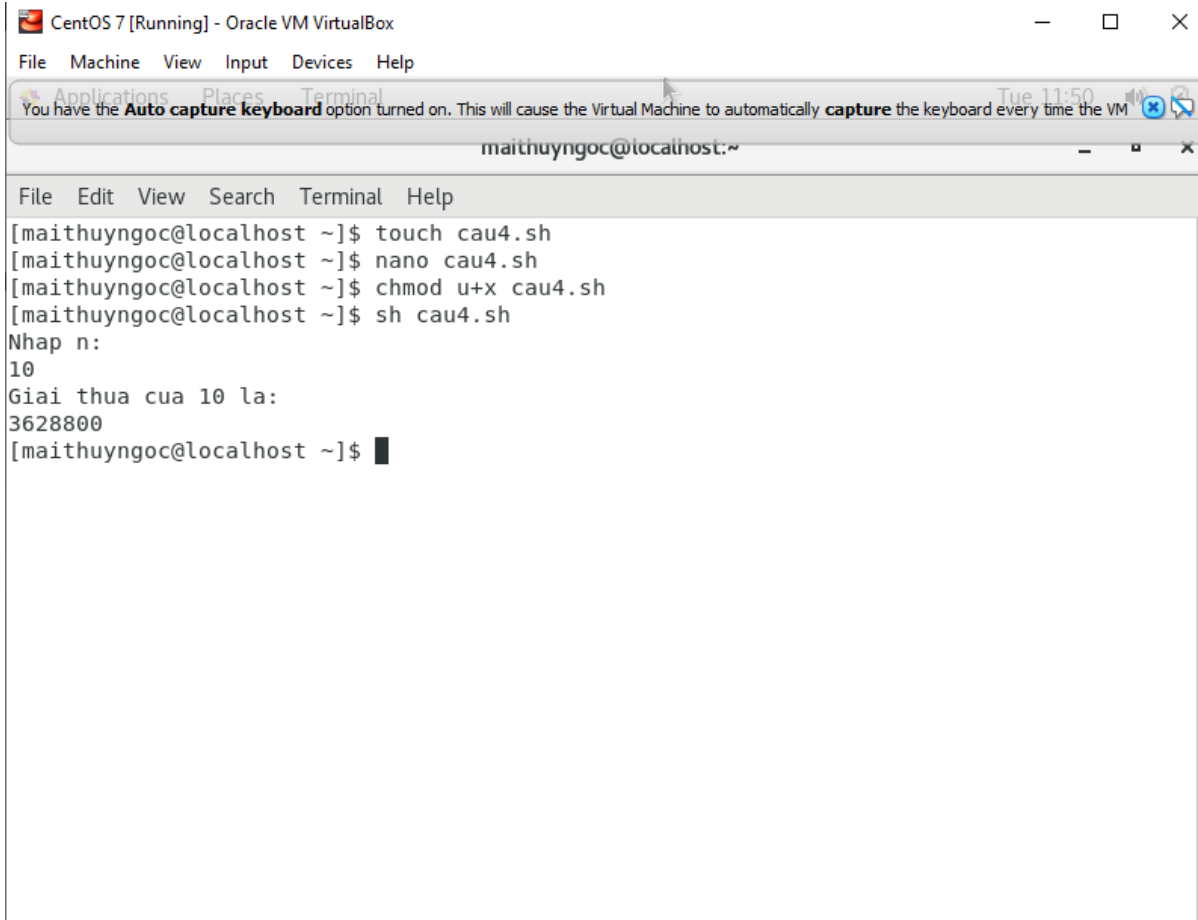
You have the **Auto capture keyboard** option turned on. This will cause the Virtual Machine to automatically **capture** the keyboard every time the VM

maithuyngoc@localhost:~

File Edit View Search Terminal Help

```
[maithuyngoc@localhost ~]$ touch cau3.sh
[maithuyngoc@localhost ~]$ nano cau3.sh
[maithuyngoc@localhost ~]$ chmod u+x cau3.sh
[maithuyngoc@localhost ~]$ sh cau3.sh
Nhap n:
9
Tong cac so tu 1 den 2*n -1 la:
81
[maithuyngoc@localhost ~]$
```

Câu 4: Viết chương trình tính $n!$ với n nhập từ bàn phím.



```
CentOS 7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
You have the Auto capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the keyboard every time the VM
maithuyngoc@localhost:~
File Edit View Search Terminal Help
[maithuyngoc@localhost ~]$ touch cau4.sh
[maithuyngoc@localhost ~]$ nano cau4.sh
[maithuyngoc@localhost ~]$ chmod u+x cau4.sh
[maithuyngoc@localhost ~]$ sh cau4.sh
Nhap n:
10
Giai thua cua 10 la:
3628800
[maithuyngoc@localhost ~]$
```

CentOS 7 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal

You have the **Auto capture keyboard** option turned on. This will cause the Virtual Machine to automatically **capture** the keyboard every time the VM

maithuynhoc@localhost:~

File Edit View Search Terminal Help

GNU nano 2.3.1 File: cau4.sh

```
#!/bin/sh

echo "Nhap n:"
read n
giaithua=1

echo "Giai thua cua $n la:"

for((i=1;i<=$n;i++))
do
    giaithua=`expr $giaithua \* $i`
done
echo "$giaithua"
```

[Read 14 lines]

^G Get Help	^O WriteOut	^R Read File	^Y Prev Page	^K Cut Text	^C Cur Pos
^X Exit	^J Justify	^W Where Is	^V Next Page	^U UnCut Text	^T To Spell