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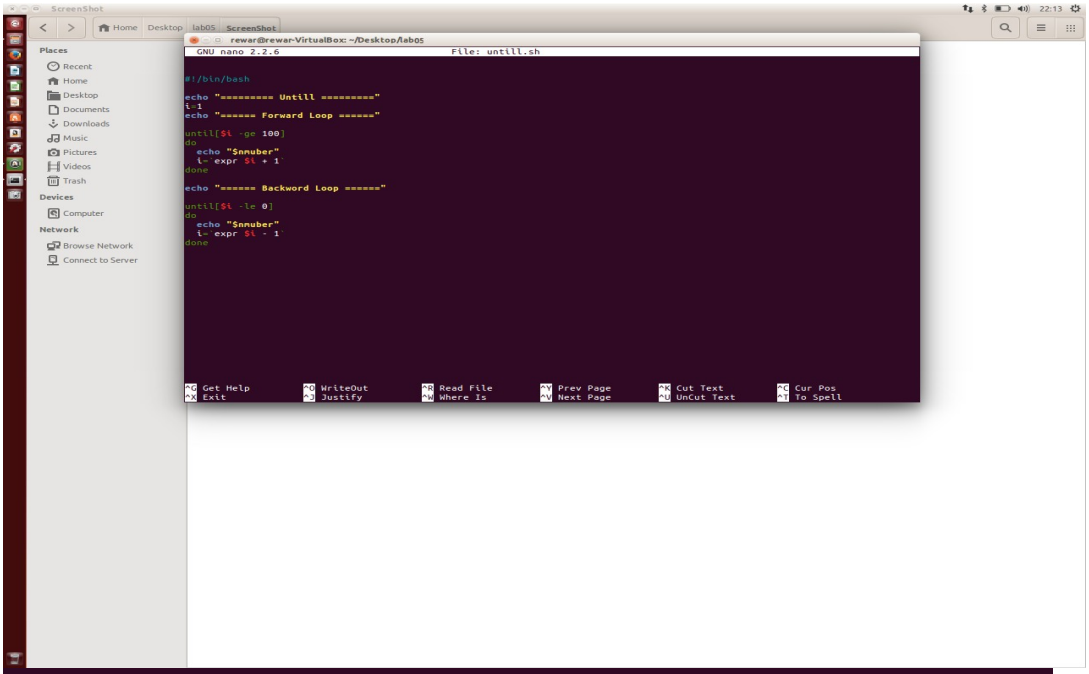
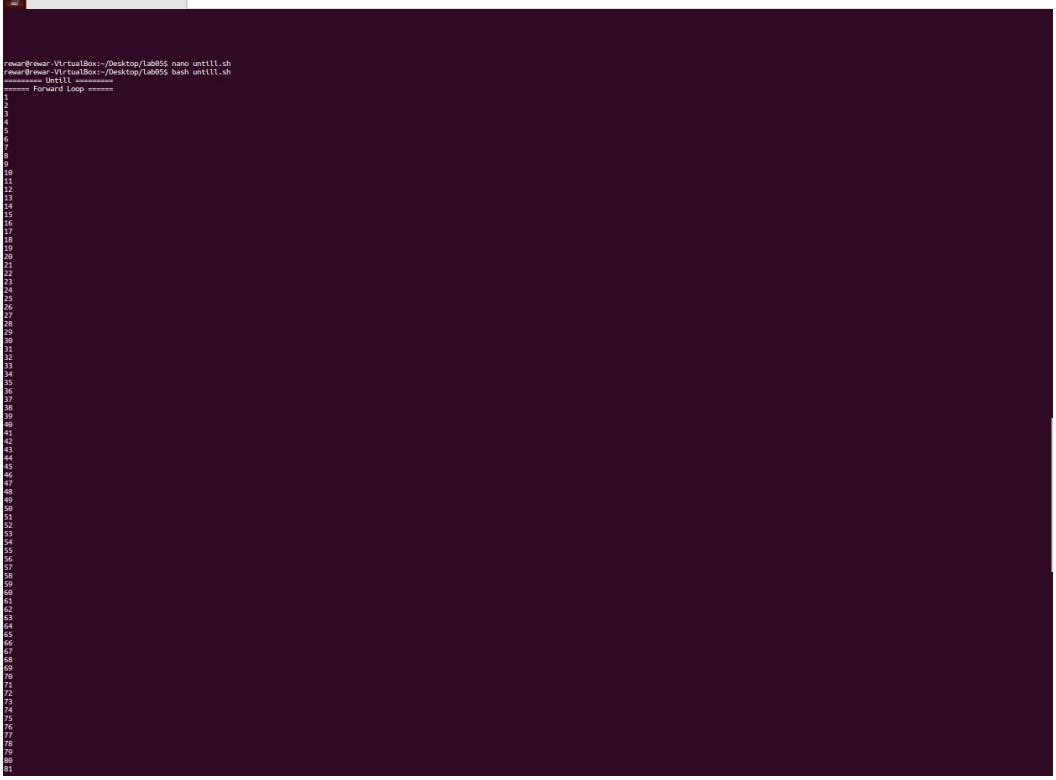
Operating System lab

AM

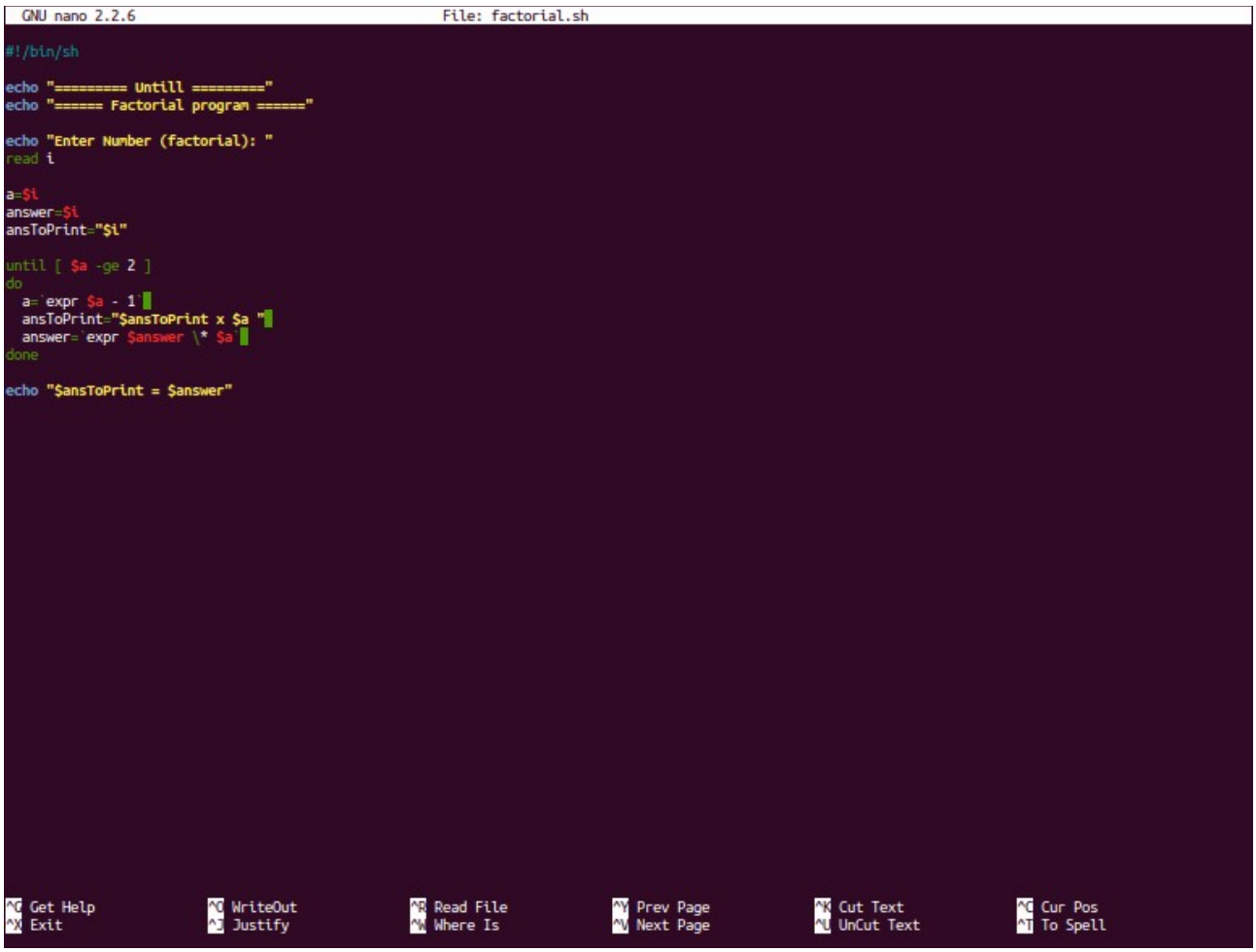
Until or Function Question

Task 01 (Until Loop):





```
====== Backword Loop ======
```




```
rewar@rewar-VirtualBox:~/Desktop/lab05$ nano factorial.sh
rewar@rewar-VirtualBox:~/Desktop/lab05$ bash factorial.sh
========= Untill =========
====== Factorial program ======
Enter Number (factorial):
5
5 x 4  x 3  x 2  x 1  = 120
rewar@rewar-VirtualBox:~/Desktop/lab05$
```

```
rewar@rewar-VirtualBox:~/Desktop/lab05$ nano Table.sh
rewar@rewar-VirtualBox:~/Desktop/lab05$ bash Table.sh
========= Untill =========
====== Multiplication table. ======
Enter Number (multiplication):
5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
rewar@rewar-VirtualBox:~/Desktop/lab05$
```

```
 GNU nano 2.2.6                    File: Table.sh

#!/bin/bash

echo "========= Untill ========="
echo "====== Multiplication table. ======"

echo "Enter Number (multiplication): "
read n

i=1
until [ $i -gt 10 ]
do
  sum=`expr $i \* $n`
  echo "$n x $i = $sum"
i=`expr $i + 1`
done

                        [ Read 15 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
```

Task 02 (Function)

```
 GNU nano 2.2.6                    File: Function.sh


function tablePrint(){
  i=1
  until [ $i -gt 10 ]
  do
    sum=`expr $i \* $1`
    echo "$1 x $i = $sum"
        i=`expr $i + 1`
  done
}


function factorial(){
  i=$1
  answer=$i
  ansToPrint="$i"

  while [ $i -ge 2 ]
  do
    i=`expr $i - 1`
    ansToPrint="$ansToPrint x $i"
    answer=`expr $answer \* $i`
  done

  echo "$ansToPrint = $answer"
}

function identify(){
  if [ `expr $1 % 2` == 0 ]
  then
    echo "Odd"
  else
    echo "Even"
fi
}

echo "Table from Function"
tablePrint 2
echo ""
echo "Factorial from Function"
factorial 5
echo ""
echo "Odd or Even from Function"
identify 5


                        [ Wrote 47 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
```

```
rewar@rewar-VirtualBox:~/Desktop/lab05$ nano Function.sh
rewar@rewar-VirtualBox:~/Desktop/lab05$ bash Function.sh
Table from Function
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20

Factorial from Function
5 x 4 x 3 x 2 x 1 = 120

Odd or Even from Function
Even
rewar@rewar-VirtualBox:~/Desktop/lab05$
```