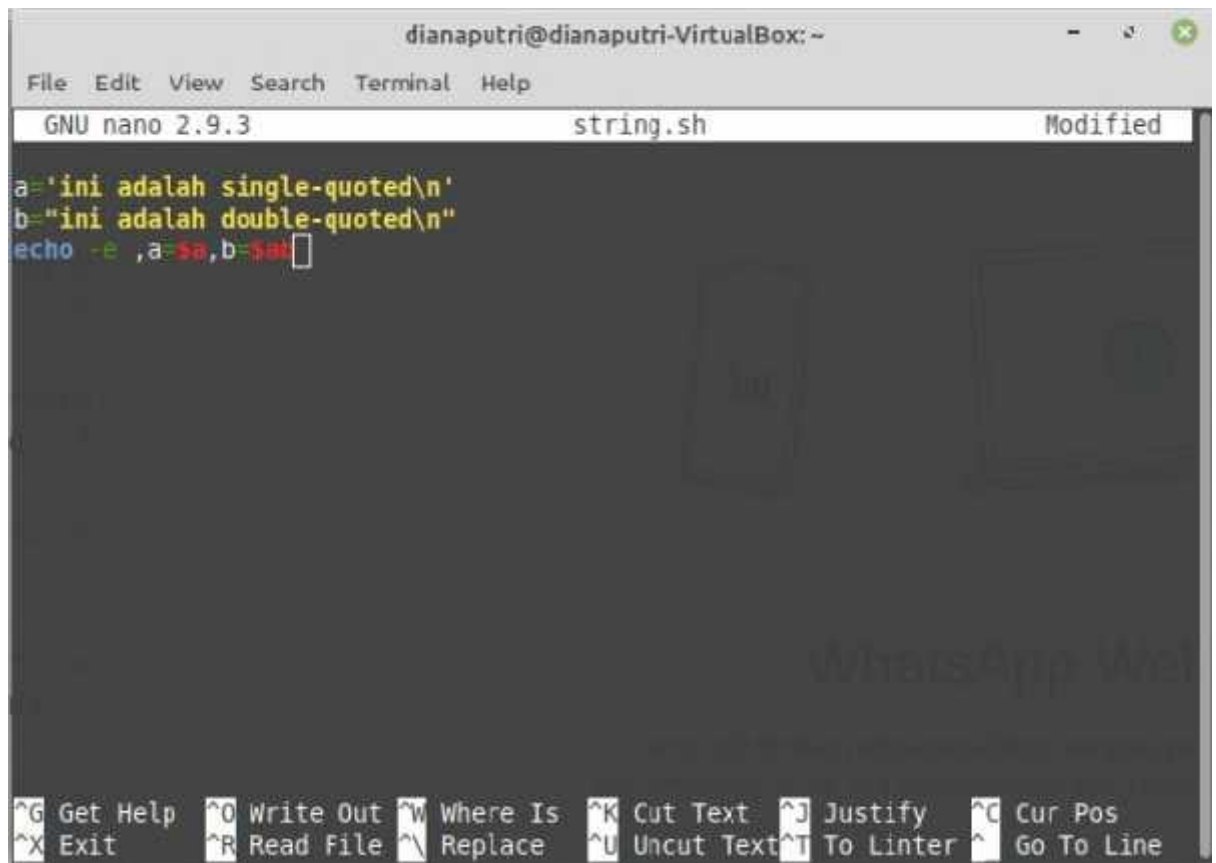


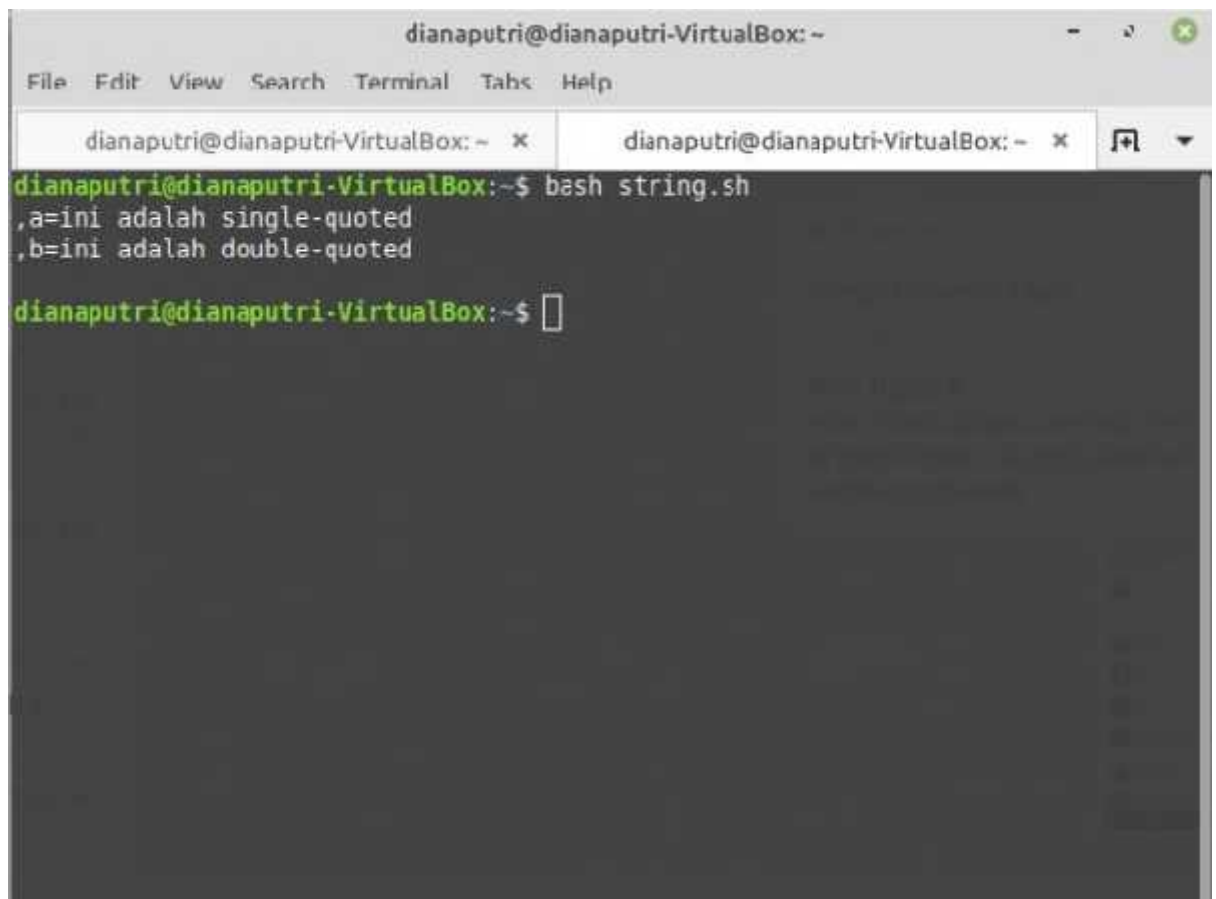
Nama: Diana Sinthya Putri

NPM: 21083010090

1. a. String.sh



```
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Help  
GNU nano 2.9.3 string.sh Modified  
a='ini adalah single-quoted\n'  
b=\"ini adalah double-quoted\n\"  
echo -e ,a=$a,b=$b  
  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^_ Replace ^U Uncut Text ^T To Linter ^_ Go To Line
```



```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Tabs Help

dianaputri@dianaputri-VirtualBox: ~ x dianaputri@dianaputri-VirtualBox: ~ x

dianaputri@dianaputri-VirtualBox:~$ bash string.sh
,a=ini adalah single-quoted
,b=ini adalah double-quoted

dianaputri@dianaputri-VirtualBox:~$
```

b. Array.sh

```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Help
GNU nano 2.9.3 array.sh Modified

#!/bin/bash

#deklarasi array
distroLinux=("Mint" "Ubuntu" "Kali" "Arch" "Debian")

#random distro
let pilih=$((RANDOM%5))

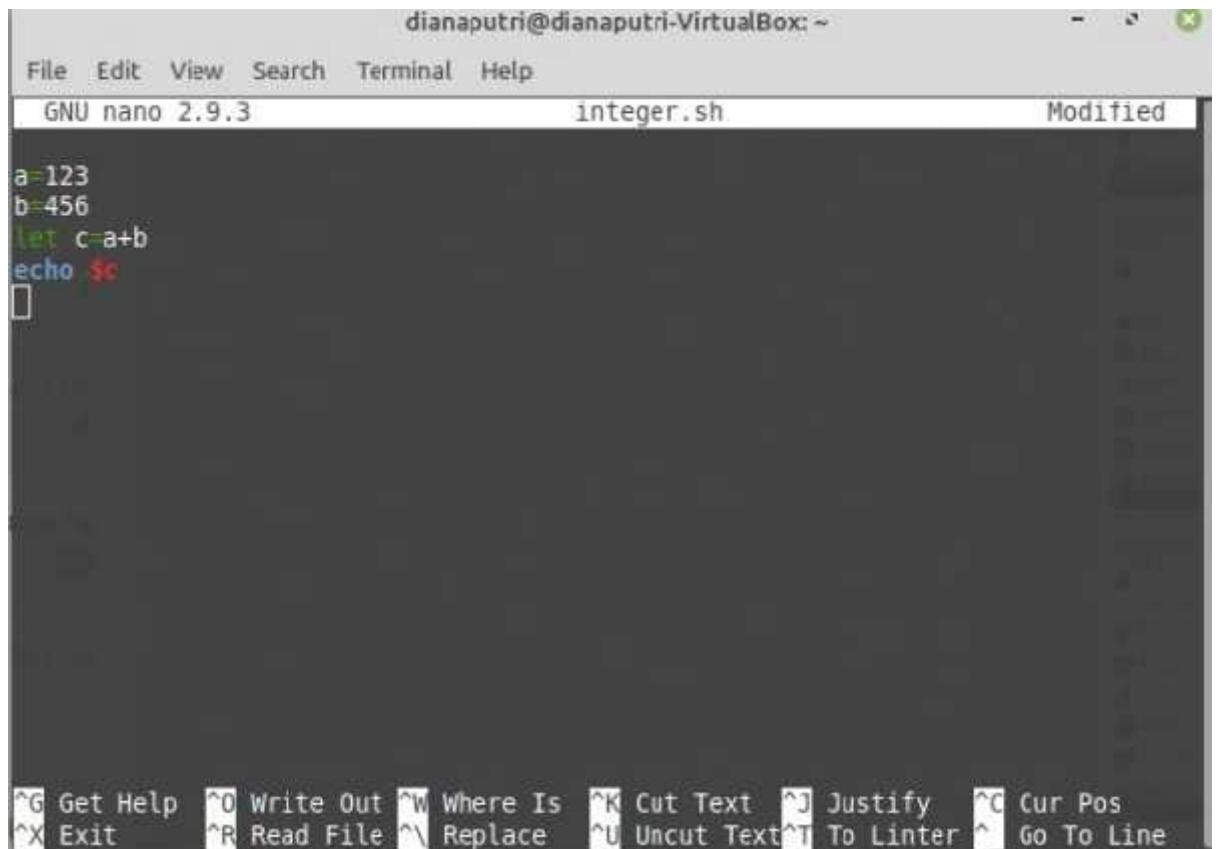
#eksekusi
echo "Saya Memilih Distro $pilih, ${distroLinux[$pilih]} !"

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line
```

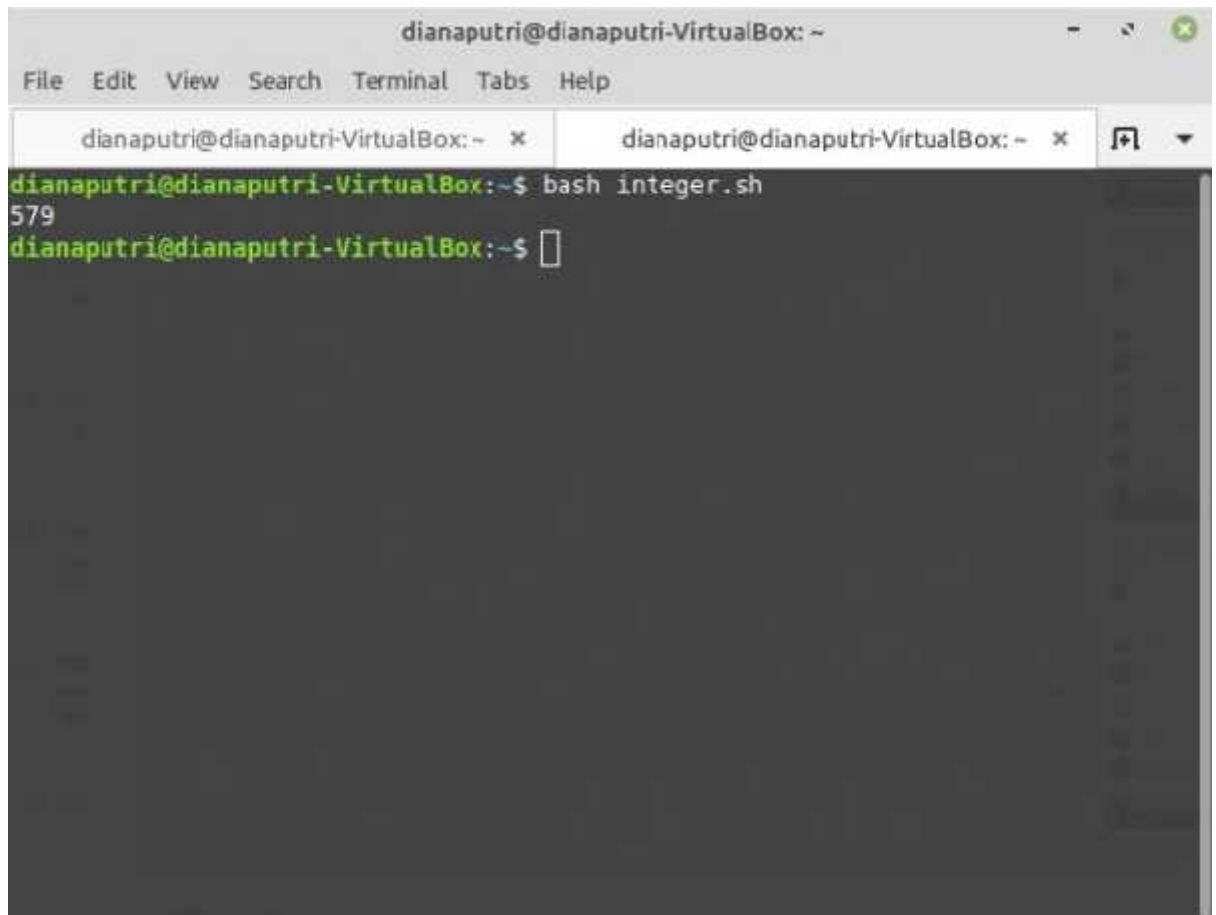
```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Tabs Help
dianaputri@dianaputri-VirtualBox: ~ x dianaputri@dianaputri-VirtualBox: ~ x

dianaputri@dianaputri-VirtualBox:~$ bash array.sh
Saya Memilih Distro 2, Kali !
dianaputri@dianaputri-VirtualBox:~$
```

c. Integer.sh



```
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Help  
GNU nano 2.9.3 integer.sh Modified  
a=123  
b=456  
let c=a+b  
echo $c  
[  
  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line
```



```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Tabs Help
dianaputri@dianaputri-VirtualBox: ~ x dianaputri@dianaputri-VirtualBox: ~ x
dianaputri@dianaputri-VirtualBox:~$ bash integer.sh
579
dianaputri@dianaputri-VirtualBox:~$
```

d. Operasi matematika

```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Help
GNU nano 2.9.3 op_mtk.sh Modified

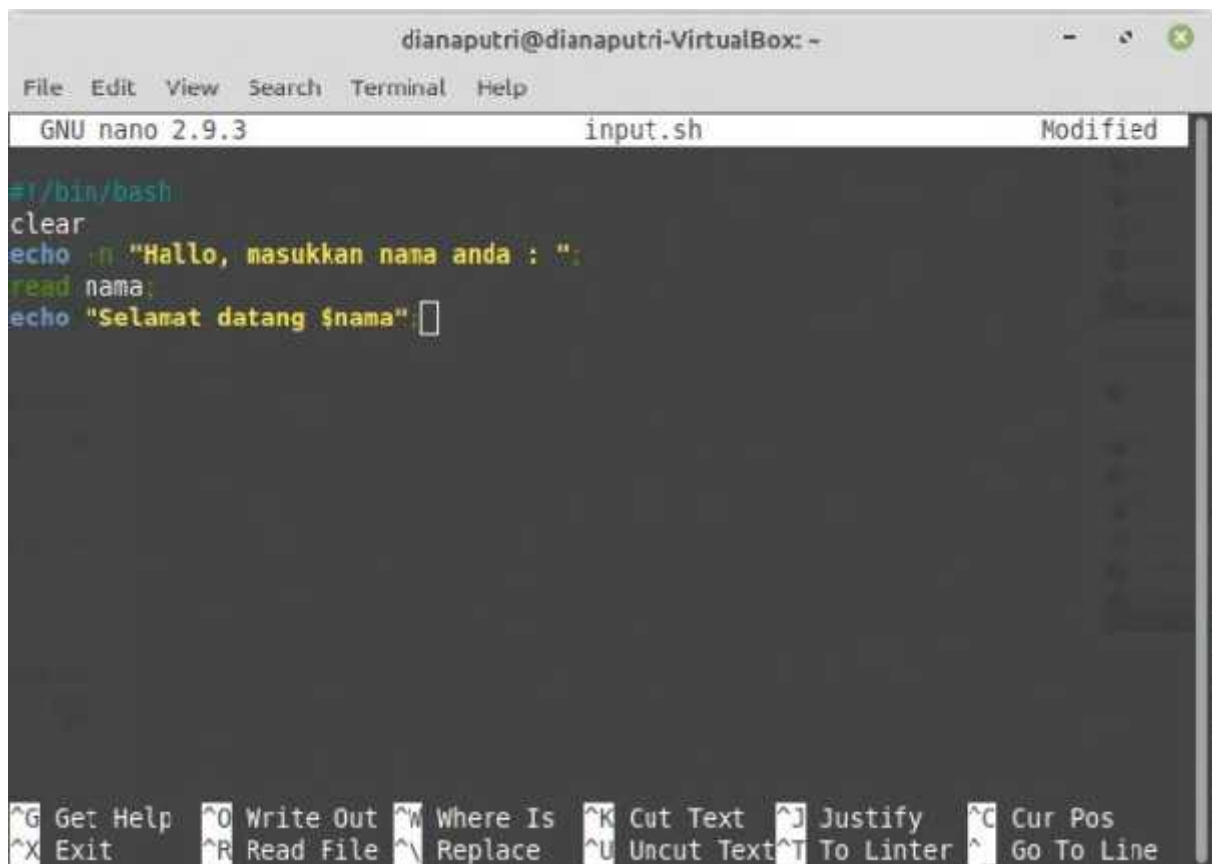
#!/bin/bash
a=15
b=7
#memakai let
let jumlah=$a+$b
let kurang=$a-$b
let kali=$a*$b
#memakai expr
bagi='expr $a / $b'
#memakai perintah substitusi ${(ekspresi)}
mod=$(( $a % $b ))
echo "a + b = $jumlah"
echo "a - b = $kurang"
echo "a * b = $kali"
echo "a / b = $bagi"
echo "a % b = $mod"
b=$a
echo "a = $a"
echo "b = $b"
```

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line

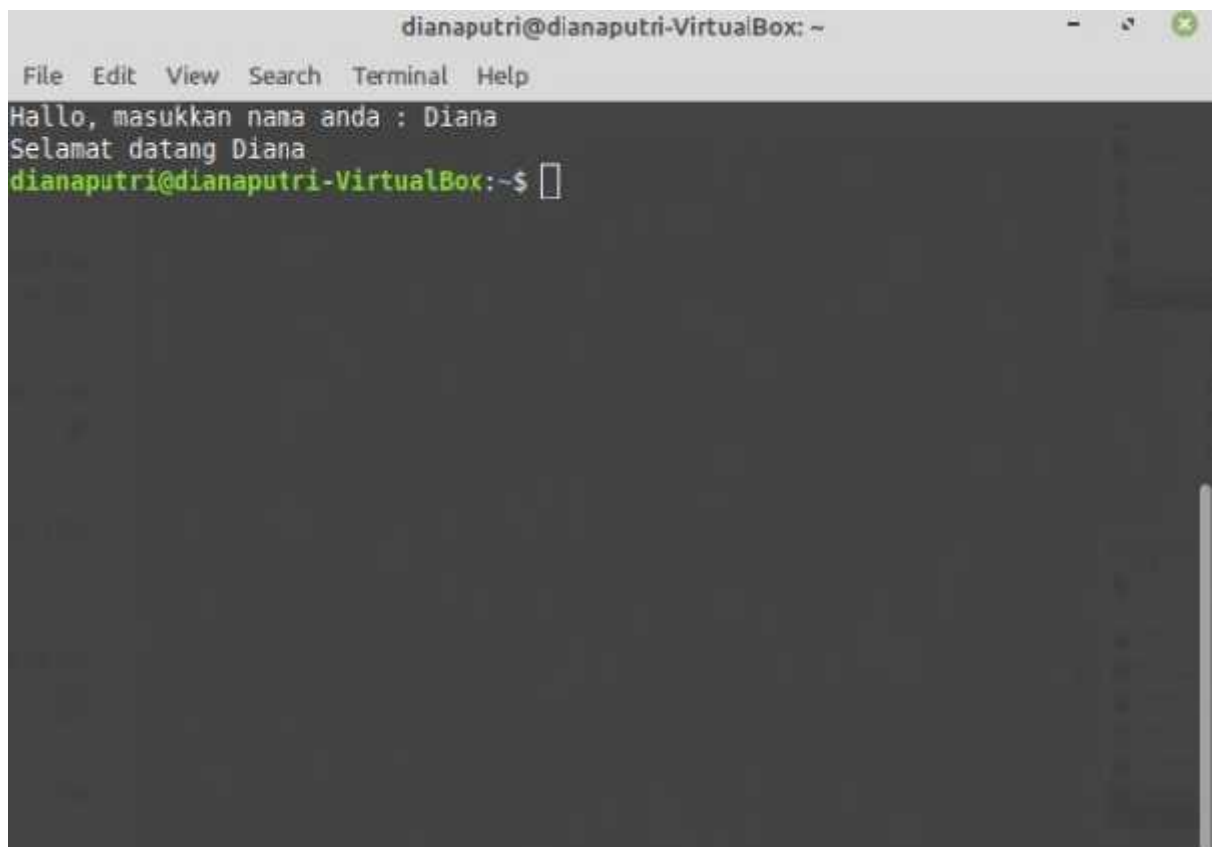
```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Tabs Help
dianaputri@dianaputri-VirtualBox: ~ x dianaputri@dianaputri-VirtualBox: ~ x

dianaputri@dianaputri-VirtualBox:~$ bash op_mtk.sh
a + b = 22
a - b = 8
a * b = 105
a / b = 2
a % b = 1
a = 15
b = 15
dianaputri@dianaputri-VirtualBox:~$
```

e. Input

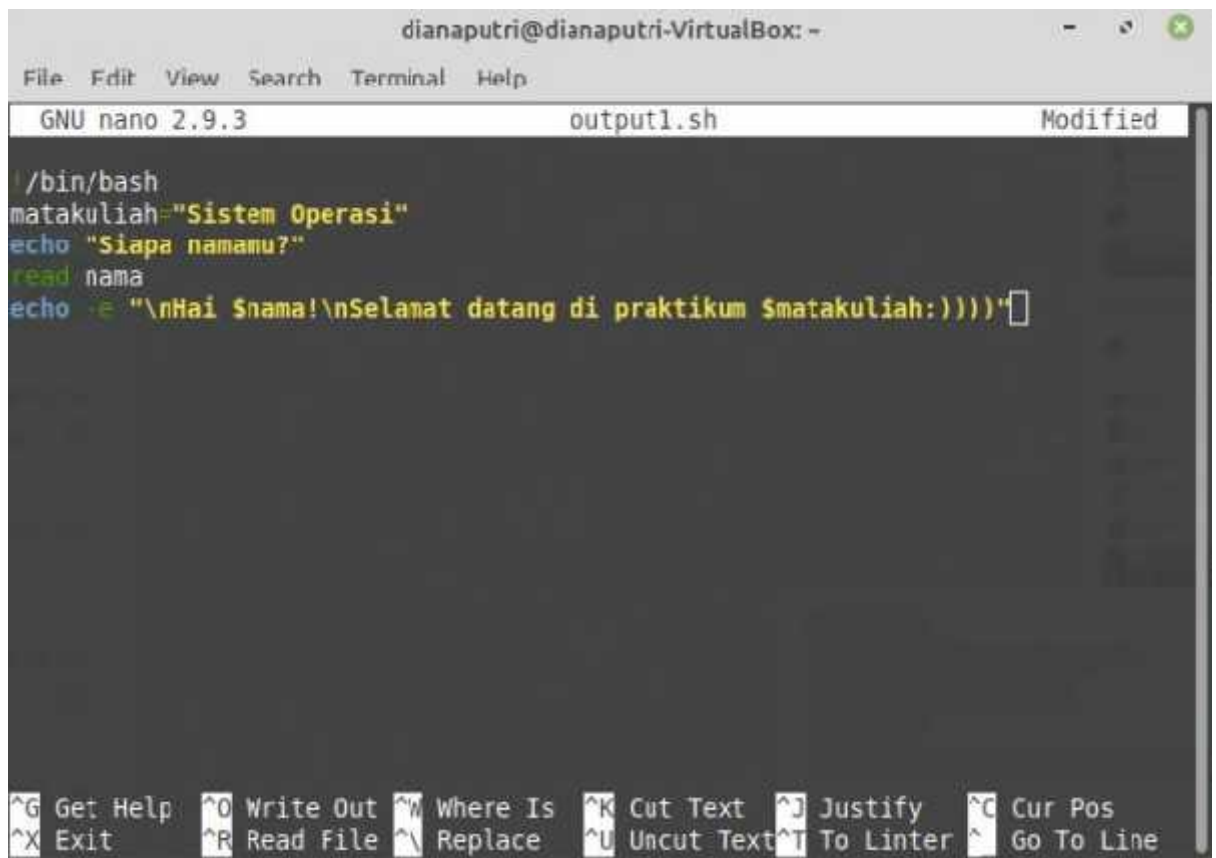


```
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Help  
GNU nano 2.9.3 input.sh Modified  
#!/bin/bash  
clear  
echo :n "Hallo, masukkan nama anda : "  
read nama  
echo "Selamat datang $nama":  
  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line
```



```
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Help  
Hallo, masukkan nama anda : Diana  
Selamat datang Diana  
dianaputri@dianaputri-VirtualBox:~$
```

f. Output



The image shows a terminal window titled "dianaputri@dianaputri-VirtualBox: ~". Inside the terminal, the GNU nano 2.9.3 editor is open, editing a file named "output1.sh". The script content is as follows:

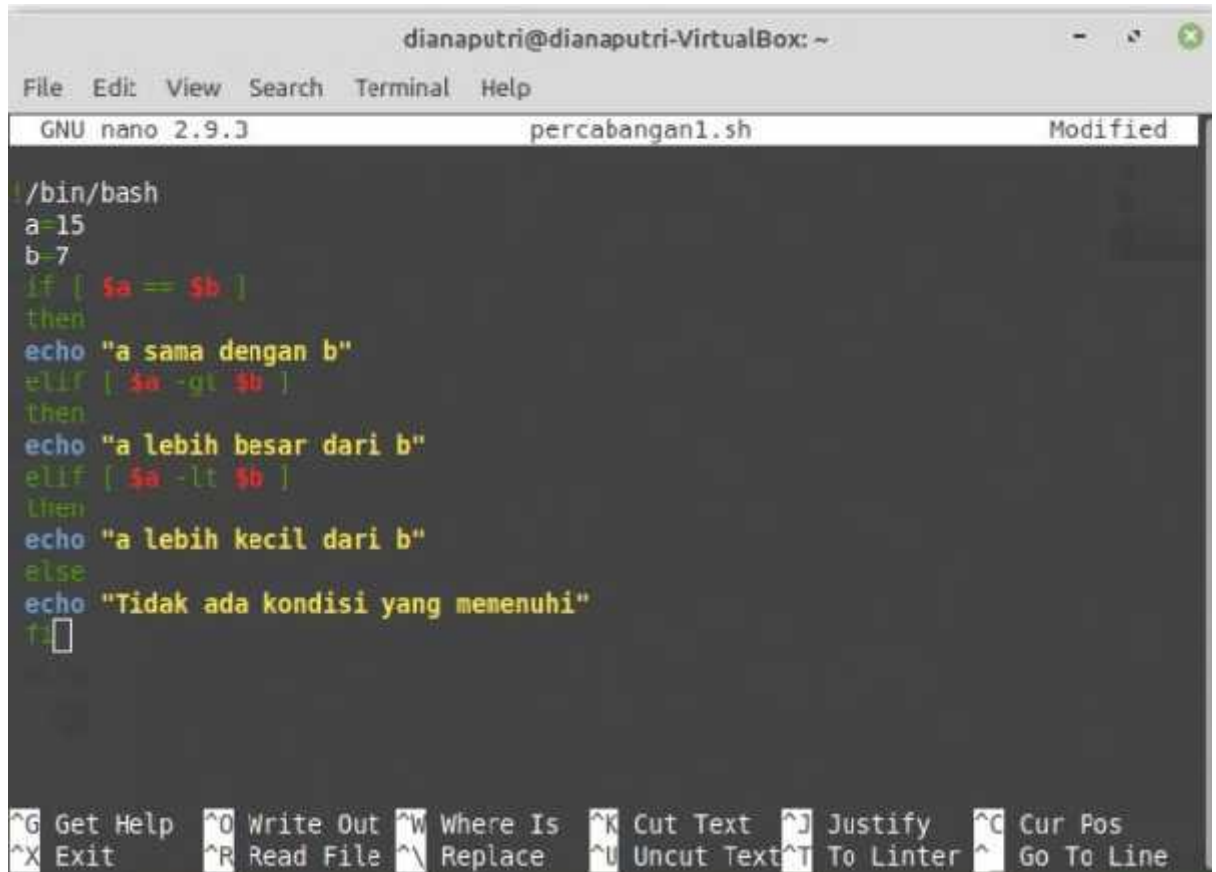
```
/bin/bash
matakuliah="Sistem Operasi"
echo "Siapa namamu?"
read nama
echo -e "\nHai $nama!\nSelamat datang di praktikum $matakuliah:))))"
```

The bottom of the terminal displays a row of nano editor shortcuts:
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line


```
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Tabs Help  
dianaputri@dianaputri-VirtualBox: ~ x dianaputri@dianaputri-VirtualBox: ~ x  
dianaputri@dianaputri-VirtualBox:~$ bash output1.sh  
output1.sh: line 1: !/bin/bash: No such file or directory  
Siapa namamu?  
Diana  
  
Hai Diana!  
Selamat datang di praktikum Sistem Operasi:)))  
dianaputri@dianaputri-VirtualBox:~$
```

```
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Help  
GNU nano 2.9.3 output2.sh Modified  
#!/bin/bash  
# Inisialisasi Var  
a=55;  
b=4;  
distroLinux="Ubuntu 19.04 LTS"  
let c=a%b;  
# Output Printf  
printf "OS : $distroLinux \n";  
printf "$c \n";  
printf "%.2f float \n" $a;  
printf "%.1f float \n" $a;  
  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line
```

g. Percabangan

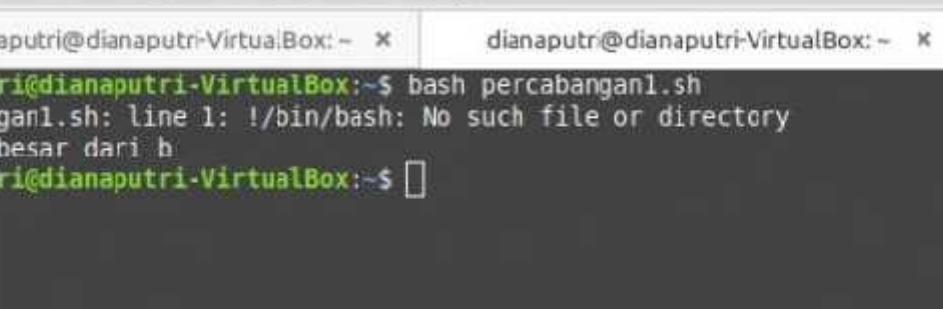


The image shows a terminal window titled "dianaputri@dianaputri-VirtualBox: ~". The window contains a nano text editor editing a file named "percabangan1.sh". The script is a shell script that uses conditional statements to compare two variables, 'a' and 'b'. The script is as follows:

```
#!/bin/bash
a=15
b=7
if [ $a == $b ]
then
echo "a sama dengan b"
elif [ $a -gt $b ]
then
echo "a lebih besar dari b"
elif [ $a -lt $b ]
then
echo "a lebih kecil dari b"
else
echo "Tidak ada kondisi yang memenuhi"
fi
```

The terminal window also displays a help menu at the bottom with the following options:

^G Get Help	^O Write Out	^W Where Is	^K Cut Text	^J Justify	^C Cur Pos
^X Exit	^R Read File	^\ Replace	^U Uncut Text	^T To Linter	^_ Go To Line



```
dianaputri@dianaputri-VirtualBox: ~$ bash percabangan1.sh
percabangan1.sh: line 1: !/bin/bash: No such file or directory
a lebih besar dari b
dianaputri@dianaputri-VirtualBox:~$
```

The screenshot shows a terminal window titled "dianaputri@dianaputri-VirtualBox: ~". The menu bar includes File, Edit, View, Search, Terminal, and Help. The status bar at the top indicates "GNU nano 2.9.3", the filename "percabanga2.sh", and the state "Modified".

```
#!/bin/bash
printf "Jajan apa yang kamu suka ?\n"
printf "pentol ?\n"
printf "batagor ?\n"
printf "cireng ?\n"

read jajan

case "$jajan" in
    "pentol")
        echo "Pentol buk mah wenak slur!"
        ;;
    "batagor")
        echo "Batagore mas budi mantap bat"
        ;;
    "cireng")
        echo "Cirenge kantin rasane unch-unch"
        ;;
    *)

```

At the bottom of the terminal, there are keyboard shortcuts for various nano editor functions:

- G**: Get Help
- O**: Write Out
- W**: Where Is
- K**: Cut Text
- J**: Justify
- C**: Cur Pos
- X**: Exit
- R**: Read File
- **: Replace
- U**: Uncut Text
- T**: To Linter
- _**: Go To Line

```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Help
GNU nano 2.9.3 percabanga2.sh Modified

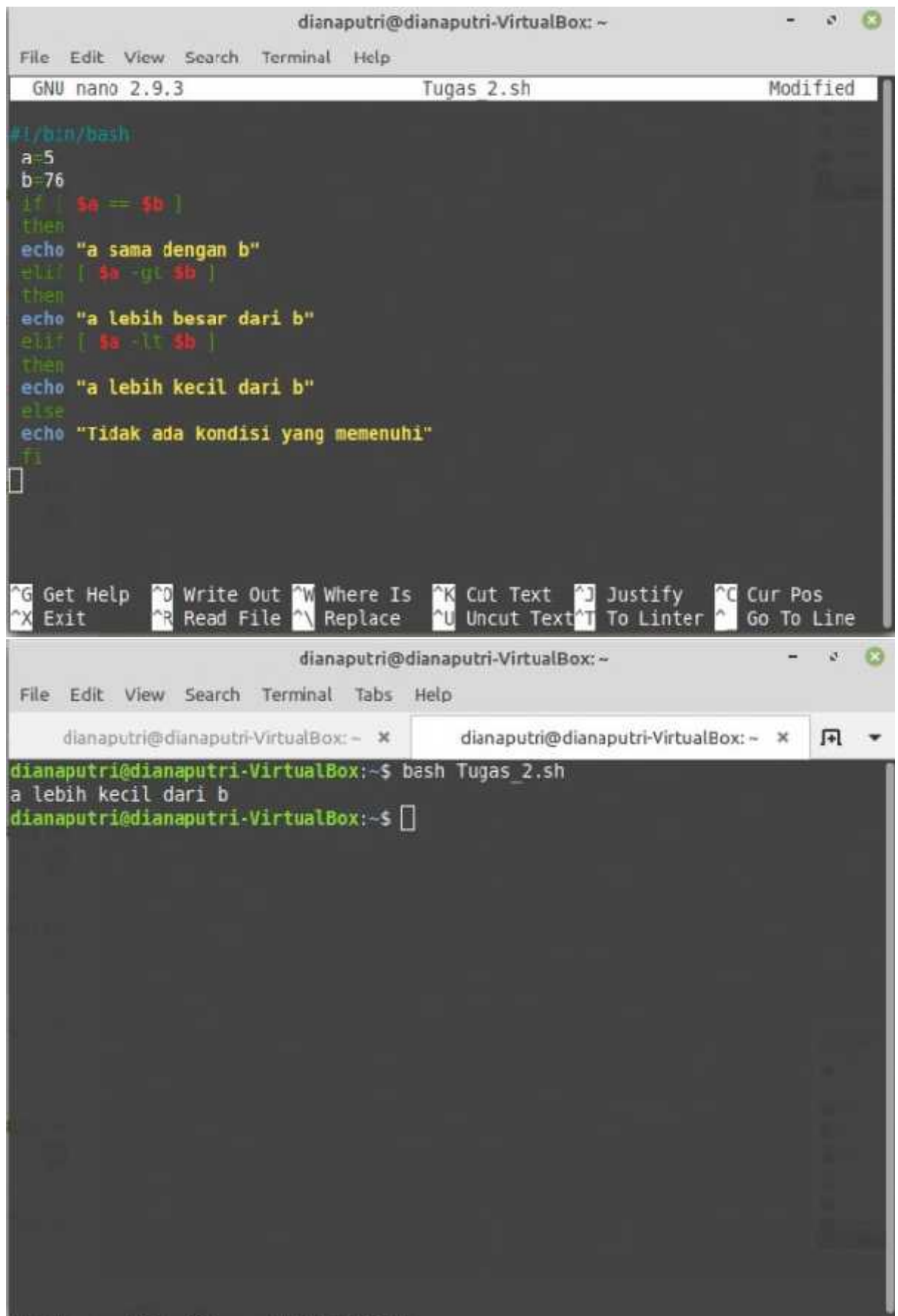
echo "Pentol buk mah wenak slur!"
;;
"batagor")
echo "Batagore mas budi mantap bat"
;;
"cireng")
echo "Cireng kantin rasane unch-unch"
;;
*)
echo "Makanan yang kamu suka gaenak hehe"
;;
esac

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line
```

```
dianaputri@dianaputri-VirtualBox: ~
File Edit View Search Terminal Tzbs Help
dianaputri@dianaputri-VirtualBox: ~ x dianaputri@dianaputri-VirtualBox: ~ x

dianaputri@dianaputri-VirtualBox:~$ bash percabangan2.sh
Jajan apa yang kamu suka ?
pentol ?
batagor ?
cireng ?
batagor
Batagore mas budi mantap bat
dianaputri@dianaputri-VirtualBox:~$
```

2. Tugas_2



The image shows two screenshots of a terminal window. The top screenshot shows a nano editor editing a file named 'Tugas_2.sh'. The script contains a comparison of variables 'a' and 'b'. The bottom screenshot shows the terminal running the script, which outputs 'a lebih kecil dari b'.

```
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Help  
GNU nano 2.9.3 Tugas_2.sh Modified  
#!/bin/bash  
a=5  
b=76  
if [ $a == $b ]  
then  
echo "a sama dengan b"  
elif [ $a -gt $b ]  
then  
echo "a lebih besar dari b"  
elif [ $a -lt $b ]  
then  
echo "a lebih kecil dari b"  
else  
echo "Tidak ada kondisi yang memenuhi"  
fi  
[  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Linter ^_ Go To Line  
dianaputri@dianaputri-VirtualBox: ~  
File Edit View Search Terminal Tabs Help  
dianaputri@dianaputri-VirtualBox: ~ x dianaputri@dianaputri-VirtualBox: ~ x  
dianaputri@dianaputri-VirtualBox:~$ bash Tugas_2.sh  
a lebih kecil dari b  
dianaputri@dianaputri-VirtualBox:~$
```