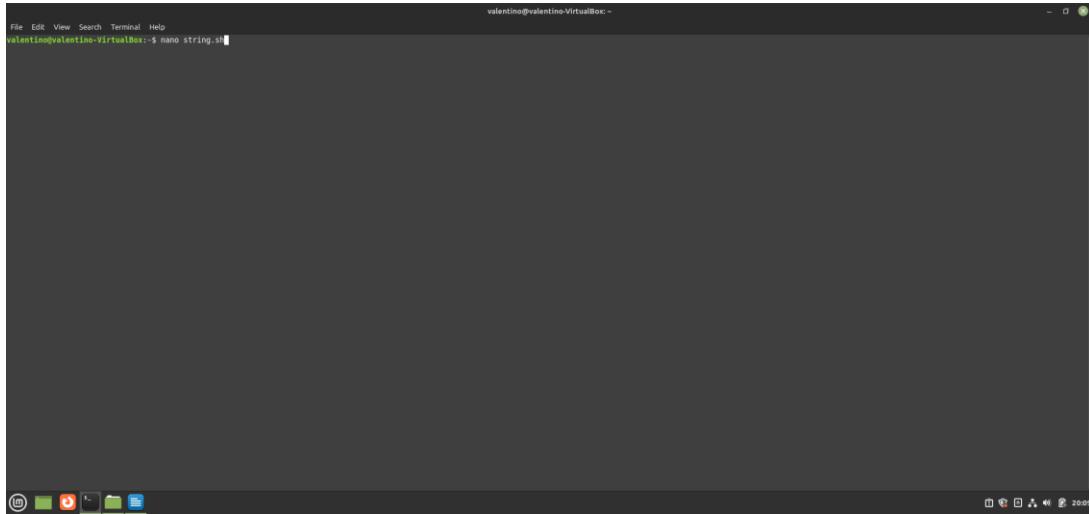


Valentino Belardo
21083010109
Sistem Operasi A

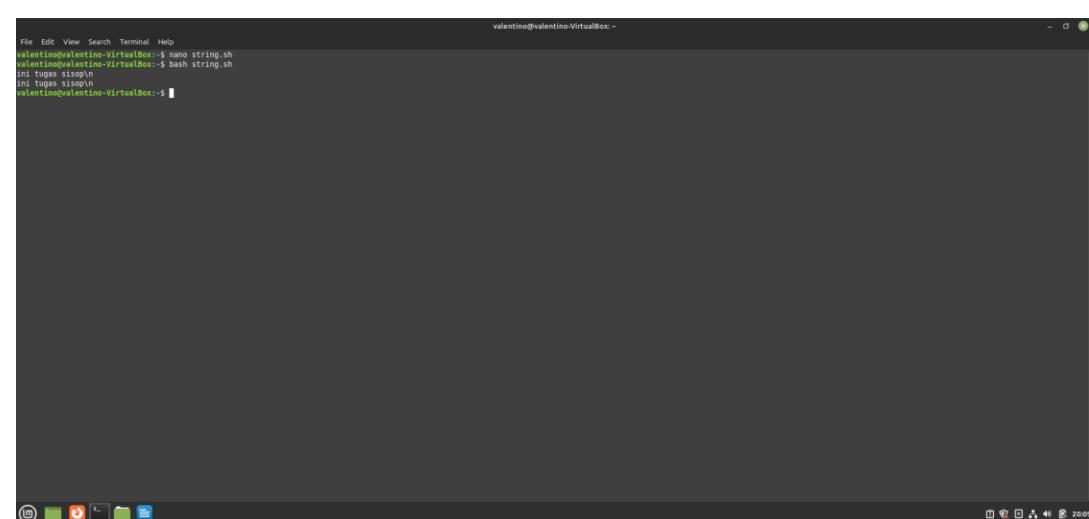
A) Penggunaan String



```
valentino@valentino-VirtualBox:~$ nano string.sh
valentino@valentino-VirtualBox:~$
```



```
valentino@valentino-VirtualBox:~$ cat string.sh
string.sh
echo "ini tugas sisop"
echo "ini tugas sisop"\n
valentino@valentino-VirtualBox:~$
```



```
valentino@valentino-VirtualBox:~$ nano string.sh
valentino@valentino-VirtualBox:~$ bash string.sh
ini tugas sisop
ini tugas sisop\n
valentino@valentino-VirtualBox:~$
```

B) Penggunaan Array

```
valentino@valentino-VirtualBox:~$ nano array.sh
valentino@valentino-VirtualBox:~$ bash array.sh
ini tugas sisop\nini tugas sisop\nini tugas sisop\nvalentino@valentino-VirtualBox:~$ nano array.sh
```

```
valentino@valentino-VirtualBox:~$ nano array.sh
valentino@valentino-VirtualBox:~$ bash array.sh
array.sh
distroLinux["Mobil","Motor","Kapal","Pesawat","Tank"]
$ pilih=$RANDOM%10
echo "saya memilih $pilih, ${distroLinux[$pilih]}!"
```

```
valentino@valentino-VirtualBox:~$ nano string.sh
valentino@valentino-VirtualBox:~$ bash string.sh
ini tugas sisop\nini tugas sisop\nvalentino@valentino-VirtualBox:~$ nano array.sh
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 2, Kapal
valentino@valentino-VirtualBox:~$
```

C) Penggunaan Integer

```
Fайл Edit View Search Terminal Help
valentino@valentino-VirtualBox:~$ nano string.sh
valentino@valentino-VirtualBox:~$ bash string.sh
ini tugas sisop\n
ini tugas sisop\n
valentino@valentino-VirtualBox:~$ nano array.sh
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 2, Kapal !
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 4, Tank !
valentino@valentino-VirtualBox:~$ a=21
valentino@valentino-VirtualBox:~$ b=19
valentino@valentino-VirtualBox:~$ let c=$a*$b
valentino@valentino-VirtualBox:~$ echo $c
1890
valentino@valentino-VirtualBox:~$
```

D) Penggunaan Operasi Matematika

```
Fайл Edit View Search Terminal Help
valentino@valentino-VirtualBox:~$ nano string.sh
valentino@valentino-VirtualBox:~$ bash string.sh
ini tugas sisop\n
ini tugas sisop\n
valentino@valentino-VirtualBox:~$ nano array.sh
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 2, Kapal !
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 2, Kapal !
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 4, Tank !
valentino@valentino-VirtualBox:~$ a=21
valentino@valentino-VirtualBox:~$ b=19
valentino@valentino-VirtualBox:~$ let c=$a*$b
valentino@valentino-VirtualBox:~$ echo $c
1890
valentino@valentino-VirtualBox:~$ nano op_mtk.sh
```



```
Fайл Edit View Search Terminal Help
a 120
b 20
echo "jumlah $a+$b"
echo "kurang $a-$b"
echo "kali $a*$b"
echo "bagi expr $a / $b"
mod=$((a % b))
echo "$a + $b = $jumlah"
echo "$a - $b = $kurang"
echo "$a * $b = $kali"
echo "$a / $b = $bagi"
echo "$a = $a"
echo "$b = $b"
```

Save modified buffer? Yes No Cancel

E) Pembuatan Input

```

valentino@valentino-VirtualBox:~$ nano string.sh
ini tugas sisopn
ini tugas sisopn
valentino@valentino-VirtualBox:~$ bash string.sh
saya memilih 2, Kapal !
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 1, Array
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 4, Tank !
valentino@valentino-VirtualBox:~$ a=21
valentino@valentino-VirtualBox:~$ b=2400
valentino@valentino-VirtualBox:~$ let c=a+b
valentino@valentino-VirtualBox:~$ echo $c
1890
valentino@valentino-VirtualBox:~$ nano op_mtk.sh
valentino@valentino-VirtualBox:~$ bash op_mtk.sh
a - b = 140
a * b = 100
a / b = 2400
a % b = 0
a = 120
b = 20
valentino@valentino-VirtualBox:~$ nano input.sh

```

File Edit View Search Terminal Help

valentino@valentino-VirtualBox:~\$ nano input.sh

```

#!/bin/bash
2>> echo "Who are you ? ";
read nama
echo "Welcome back $nama";

```

File Edit View Search Terminal Help

valentino@valentino-VirtualBox:~\$ nano input.sh

```

#!/bin/bash
2>> echo "Who are you ? ";
read nama
echo "Welcome back $nama";

```

F) Penampilan Output

```

valentino@valentino-VirtualBox:~$ nano string.sh
valentino@valentino-VirtualBox:~$ bash string.sh
ini tugas sisopn
ini tugas sisopn
valentino@valentino-VirtualBox:~$ nano array.sh
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 2, Kapal !
valentino@valentino-VirtualBox:~$ bash array.sh
saya memilih 4, Tank !
valentino@valentino-VirtualBox:~$ a=21
valentino@valentino-VirtualBox:~$ b=2400
valentino@valentino-VirtualBox:~$ let c=a+b
valentino@valentino-VirtualBox:~$ echo $c
1890
valentino@valentino-VirtualBox:~$ nano op_mtk.sh
valentino@valentino-VirtualBox:~$ bash op_mtk.sh
a - b = 140
a * b = 100
a / b = 2400
a % b = 0
a = 120
b = 20
valentino@valentino-VirtualBox:~$ nano input.sh
valentino@valentino-VirtualBox:~$ bash input.sh
Who are you : Vincent
welcome back Vincent
valentino@valentino-VirtualBox:~$ output1.sh
output1.sh: command not found
valentino@valentino-VirtualBox:~$ nano output1.sh
valentino@valentino-VirtualBox:~$ bash output1.sh
Hello, who are you
Hello, who are you
Desta
Hai Desta!
Welcome Back at Motorcycle Harley Davidson:)))
valentino@valentino-VirtualBox:~$ nano output2.sh

```

```
File Edit View Search Terminal Help  
valentino@valentino-VirtualBox:~$ nano string.sh  
valentino@valentino-VirtualBox:~$ bash string.sh  
ini tugas sisopn  
ini tugas sisopv  
  
valentino@valentino-VirtualBox:~$ nano array.sh  
valentino@valentino-VirtualBox:~$ bash array.sh  
saya menilih 2, Kapal !  
valentino@valentino-VirtualBox:~$ bash array.sh  
saya menilih 2, Kapal !  
valentino@valentino-VirtualBox:~$ bash array.sh  
saya menilih 4, Tank !  
valentino@valentino-VirtualBox:~$ a=21  
valentino@valentino-VirtualBox:~$ b=90  
valentino@valentino-VirtualBox:~$ let c=a+b  
valentino@valentino-VirtualBox:~$ echo $c  
1990  
valentino@valentino-VirtualBox:~$ nano op.mtk.sh  
valentino@valentino-VirtualBox:~$ bash op.mtk.sh  
a = 100  
a + b = 100  
a - b = 2400  
a * b = 0  
a % b = 120  
b = 50  
  
valentino@valentino-VirtualBox:~$ nano input.sh  
valentino@valentino-VirtualBox:~$ bash input.sh  
Who are you : Vincent  
Hello, bad Vincent  
valentino@valentino-VirtualBox:~$ output1.sh  
output1.sh: command not found  
valentino@valentino-VirtualBox:~$ nano output1.sh  
valentino@valentino-VirtualBox:~$ bash output1.sh  
Hello, who are you  
Destia  
  
Hal Destia!  
Welcome Back at Motorcycle Harley Davidson()))))  
valentino@valentino-VirtualBox:~$ nano output2.sh  
valentino@valentino-VirtualBox:~$ bash output2.sh  
OS : Windows 10 Home  
10.0 float  
10.0 float  
10.0 float  
valentino@valentino-VirtualBox:~$
```

G) Percabangan

```
Fайл Edit View Search Terminal Help valentino@valentino-VirtualBox:~$ nano string.sh valentino@valentino-VirtualBox:~$ bash string.sh ini tugas sisopn F valentino@valentino-VirtualBox:~$ nano array.sh valentino@valentino-VirtualBox:~$ bash array.sh saya menilih 1, Kapal ! valentino@valentino-VirtualBox:~$ bash array.sh saya menilih 2, Kapal ! valentino@valentino-VirtualBox:~$ echo $c saya menilih 4, Tank ! valentino@valentino-VirtualBox:~$ a=21 valentino@valentino-VirtualBox:~$ b=99 valentino@valentino-VirtualBox:~$ let c=$a+b valentino@valentino-VirtualBox:~$ echo $c valentino@valentino-VirtualBox:~$ valentino@valentino-VirtualBox:~$ valentino@valentino-VirtualBox:~$ bash string.sh ini tugas sisopn ini tugas sisopn F valentino@valentino-VirtualBox:~$ nano array.sh valentino@valentino-VirtualBox:~$ bash array.sh saya menilih 2, Kapal ! valentino@valentino-VirtualBox:~$ bash array.sh saya menilih 1, Kapal ! valentino@valentino-VirtualBox:~$ bash array.sh saya menilih 4, Tank ! valentino@valentino-VirtualBox:~$ a=21 valentino@valentino-VirtualBox:~$ b=99 valentino@valentino-VirtualBox:~$ let c=$a+b valentino@valentino-VirtualBox:~$ echo $c valentino@valentino-VirtualBox:~$ valentino@valentino-VirtualBox:~$ nano op.mtk.sh valentino@valentino-VirtualBox:~$ bash op.mtk.sh valentino@valentino-VirtualBox:~$ a=140 a = 140 a + b = 2400 a / b = 6 a % b = 0 128 b = 20 valentino@valentino-VirtualBox:~$ nano input.sh valentino@valentino-VirtualBox:~$ bash input.sh are you a Vincent? Welcome back Vincent valentino@valentino-VirtualBox:~$ output1.sh output1.sh: command not found valentino@valentino-VirtualBox:~$ nano output1.sh valentino@valentino-VirtualBox:~$ bash output1.sh Hello, Who are you bests  
Hal Destai!  
Hello Back at Motorcycle Harley Davidson:))) valentino@valentino-VirtualBox:~$ nano output2.sh valentino@valentino-VirtualBox:~$ bash output2.sh OS : Windows 10 Home  
18.00 float  
10.0 float valentino@valentino-VirtualBox:~$ nano percabangan1.sh valentino@valentino-VirtualBox:~$ bash percabangan1.sh a tidak sama dengan b valentino@valentino-VirtualBox:~$ nano percabangan2.sh
```

```
Mie Edt View Search Terminal Help  
valentino@valentino-VirtualBox: ~  
$#!/bin/bash  
$1=$1  
$2=$2  
$3=$3  
  
printf "Mobil apa yang kamu suka?\n"  
printf "Tesla?\n"  
printf "BMW?\n"  
printf "Lamboghirni?\n"  
  
read mobil  
  
case "$mobil" in  
"Tesla")  
echo "Testa canggih banget"  
  
"BMW")  
echo "BMW keren bat"  
  
"Lamboghirni")  
echo "Lamboghirni gahar slurr"  
"  
"  
esac  
  
echo "mobil apa iki?"  
$  
$sh
```

H) Latihan soal

```
File Edit View Search Terminal Help
valentino@valentino-VirtualBox:~$ bash array.sh
sayo valentino
valentino@valentino-VirtualBox:~$ a=21
valentino@valentino-VirtualBox:~$ b=90
valentino@valentino-VirtualBox:~$ let c=a+b
valentino@valentino-VirtualBox:~$ echo $c
1890
valentino@valentino-VirtualBox:~$ nano op_mtk.sh
valentino@valentino-VirtualBox:~$ bash op_mtk.sh
a = 120
a - b = 100
a / b = 6
a % b = 0
b = 20
valentino@valentino-VirtualBox:~$ nano input.sh
valentino@valentino-VirtualBox:~$ bash input.sh
Who are you : Vincent
Welcome back Vincent
valentino@valentino-VirtualBox:~$ output1.sh
output1.sh command not found
valentino@valentino-VirtualBox:~$ nano output1.sh
valentino@valentino-VirtualBox:~$ bash output1.sh
Hello, Who are you
Destta
Destta
Hal Destta!
Welcome Back at Motorcycle Harley Davidson()))
valentino@valentino-VirtualBox:~$ nano output2.sh
valentino@valentino-VirtualBox:~$ bash output2.sh
OS : Windows 10 Home
3
10.00 float
10.0 float
valentino@valentino-VirtualBox:~$ nano percabangan1.sh
valentino@valentino-VirtualBox:~$ bash percabangan1.sh
a tidak sama dengan b
valentino@valentino-VirtualBox:~$ nano percabangan2.sh
valentino@valentino-VirtualBox:~$ bash percabangan2.sh
Mobil apa yang kamu suka?
Tesla?
BMW?
Lambogirini?
Tesla
Tesla sangatlah bangat
valentino@valentino-VirtualBox:~$ nano Tugas_2.sh
valentino@valentino-VirtualBox:~$
```

```
File Edit View Search Terminal Help
valentino@valentino-VirtualBox:~$ nano 6_2.sh
Tugas_2.sh
valentino@valentino-VirtualBox:~$ a=1200
echo "a = 1200"
echo "b = 30"
echo "c = 30 dibagi b"
echo "pernyataan yang benar mengenai c adalah"
echo "a. c lebih besar daripada b"
echo "b. c lebih besar daripada a"
echo "c. c sama dengan a"
echo "d. c pembahanya adalah.."
a 1200
b 30
c= expr $a / $b
if [ $c -ge $b ]
then
echo "a benar"
elif [ $c -le $b ]
then
echo "b benar"
elif [ $c -eq $b ]
then
echo "c benar"
else
echo "error"
fi
valentino@valentino-VirtualBox:~$
```

```
File Edit View Search Terminal Help
valentino@valentino-VirtualBox:~$ nano input.sh
valentino@valentino-VirtualBox:~$ bash input.sh
Who are you : Destta
Welcome back Vincent
valentino@valentino-VirtualBox:~$ output1.sh
output1.sh command not found
valentino@valentino-VirtualBox:~$ nano output1.sh
valentino@valentino-VirtualBox:~$ bash output1.sh
Hello, Who are you
Destta
Destta
Hal Destta!
Welcome Back at Motorcycle Harley Davidson()))
valentino@valentino-VirtualBox:~$ nano output2.sh
valentino@valentino-VirtualBox:~$ bash output2.sh
OS : Windows 10 Home
3
10.00 float
10.0 float
valentino@valentino-VirtualBox:~$ nano percabangan1.sh
valentino@valentino-VirtualBox:~$ bash percabangan1.sh
a tidak sama dengan b
valentino@valentino-VirtualBox:~$ nano percabangan2.sh
valentino@valentino-VirtualBox:~$ bash percabangan2.sh
Mobil apa yang kamu suka?
Tesla?
BMW?
Lambogirini?
Tesla
Tesla sangatlah bangat
valentino@valentino-VirtualBox:~$ nano Tugas_2.sh
valentino@valentino-VirtualBox:~$ bash Tugas_2.sh
a = 1200
b = 30
c = a dibagi b
pernyataan yang benar mengenai c adalah
a. c lebih besar daripada b
b. c lebih besar daripada a
c. c sama dengan a
d. c pembahanya adalah..
d benar
valentino@valentino-VirtualBox:~$
```