

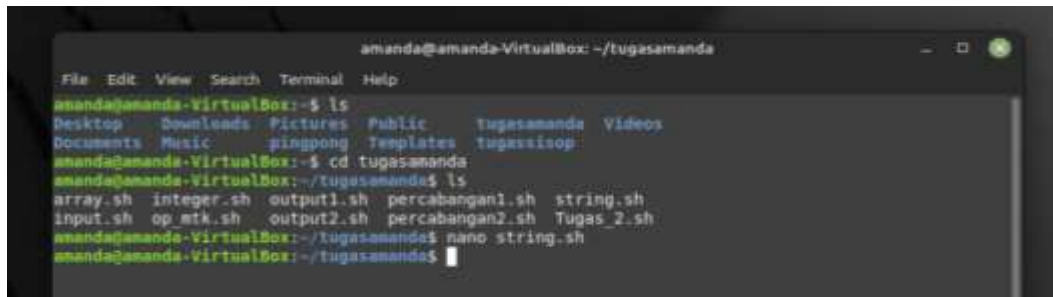
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Sistem Operasi A

Laporan Tugas 2

1. Penggunaan String



```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
amanda@amanda-VirtualBox:~$ ls
Desktop  Downloads  Pictures  Public      tugasamanda  Videos
Documents Music      pingpong  Templates  tugasiosop
amanda@amanda-VirtualBox:~$ cd tugasamanda
amanda@amanda-VirtualBox:~/tugasamanda$ ls
array.sh integer.sh output1.sh percabangan1.sh string.sh
input.sh op_mtk.sh output2.sh percabangan2.sh Tugas_2.sh
amanda@amanda-VirtualBox:~/tugasamanda$ nano string.sh
amanda@amanda-VirtualBox:~/tugasamanda$
```



```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 6.2 string.sh
a='ini single-quoted\n'
b="ini double-quoted\n"
echo -e ,a $a,b-$b
```



```
amanda@amanda-VirtualBox:~/tugasamanda$ bash string.sh
,a=ini single-quoted
,b=ini double-quoted
amanda@amanda-VirtualBox:~/tugasamanda$
```

2. Penggunaan Array



```
amanda@amanda-VirtualBox:~/tugasamanda$ nano array.sh
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 2.9.2 array.sh
#!/bin/bash
#Membuat array
distroLinux=("Mint" "Ubuntu" "Kali" "Arch" "Debian")
#Membuat
let: pilih=$((RANDOM%5))
#Mencetak
echo "Saya Memilih Distro $pilih, ${distroLinux[$pilih]} !"
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
amanda@amanda-VirtualBox:~/tugasamanda$ nano array.sh
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 1, Ubuntu !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 4, Debian !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 3, Arch !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 2, Kali !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 3, Arch !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 3, Arch !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 3, Arch !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 2, Kali !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 1, Ubuntu !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 0, Mint !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 2, Kali !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 2, Kali !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 3, Arch !
amanda@amanda-VirtualBox:~/tugasamanda$ bash array.sh
Saya Memilih Distro 1, Ubuntu !
amanda@amanda-VirtualBox:~/tugasamanda$
```

3. Penggunaan Integer

```
amanda@amanda-VirtualBox:~/tugasamanda$ nano integer.sh
amanda@amanda-VirtualBox:~/tugasamanda$ bash integer.sh
579
amanda@amanda-VirtualBox:~/tugasamanda$
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 2.9.2 integer.sh
a=123
b=456
let: c=a+b
echo $c
```

4. Penggunaan Operasi Matematika

```
amanda@amanda-VirtualBox: ~/Tugasamanda$ nano dp_etc.sh
amanda@amanda-VirtualBox:~/Tugasamanda$ hash dp_etc.sh
a = b = 22
a = b = 8
a + b = 105
a / b = 2
a % b = 1
a = 15
b = 15
amanda@amanda-VirtualBox:~/Tugasamanda$
```

```
amanda@amanda-VirtualBox: ~/Tugasamanda
File Edit View Search Terminal Help
dp_etc.sh
# nano dp_etc.sh
a=15
b=2

# Menampilkan a+b
echo jumlah a+b
echo surang a+b
echo kali a+b

# Menampilkan hasil
hasil=$(echo $a / $b)

# Menampilkan hasil dari modulo
mod=$(echo $a % $b)

echo "a + b = $jumlah"
echo "a + b = $surang"
echo "a + b = $kali"
echo "a / b = $hasil"
echo "a % b = $mod"

b=15

echo "a = $a"
echo "b = $b"
```

5. Penggunaan Input

```
amanda@amanda-VirtualBox: ~/Tugasamanda
File Edit View Search Terminal Help
input.sh
# nano input.sh
clear
echo -e "Halo, masukkan nama anda : "
read nama
echo "Selamat datang $nama"
```

```
amanda@amanda-VirtualBox: ~/Tugasamanda
File Edit View Search Terminal Help
Halo, masukkan nama anda : amanda
Selamat datang amanda
amanda@amanda-VirtualBox:~/Tugasamanda$
```

6. Penampilan Output 1

```
amanda@amanda-VirtualBox:~/tugasamanda$ nano output1.sh
amanda@amanda-VirtualBox:~/tugasamanda$ bash output1.sh
Siapa namamu?
amanda

Hai amanda!
Selamat datang di praktikum Sistem Operasi:))))
amanda@amanda-VirtualBox:~/tugasamanda$
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 6.2 output1.sh
#!/bin/bash
natakuliah="Sistem Operasi"

echo "Siapa namamu?"
read nama
echo -e "\nHai $nama!\nSelamat datang di praktikum $natakuliah:)))))"
```

7. Penampilan Output 2

```
amanda@amanda-VirtualBox:~/tugasamanda$ nano output2.sh
amanda@amanda-VirtualBox:~/tugasamanda$ bash output2.sh
OS : Ubuntu 19.04 LTS
3
55,00 float
55,0 float
amanda@amanda-VirtualBox:~/tugasamanda$
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 6.2 output2.sh
#!/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;
```

8. Percabangan 1

```
amanda@amanda-VirtualBox:~/tugasamanda$ nano percabangan1.sh
amanda@amanda-VirtualBox:~/tugasamanda$ bash percabangan1.sh
a lebih besar dari b
amanda@amanda-VirtualBox:~/tugasamanda$
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 6.2 percabangan1.sh
#!/bin/bash

a=15
b=7

if [ $a == $b ]
then
    echo "a sama dengan b"
elif [ $a > $b ]
then
    echo "a lebih besar dari b"
elif [ $a < $b ]
then
    echo "a lebih kecil dari b"
else
    echo "Tidak ada kondisi yang memenuhi"
fi
```

9. Percabangan 2

```
amanda@amanda-VirtualBox:~/tugasamanda$ nano percabangan2.sh
amanda@amanda-VirtualBox:~/tugasamanda$ bash percabangan2.sh
Jajan apa yang kamu suka ?
pentol ?
batagor ?
cireng ?
Cireng kantin rasanya unch-unch
amanda@amanda-VirtualBox:~/tugasamanda$
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 6.2 percabangan2.sh
#!/bin/bash

print "Jajan apa yang kamu suka ?"
print "pentol ?"
print "batagor ?"
print "cireng ?"

read jajan

case "$jajan" in
    "pentol")
        echo "Pentol buh mah enak sluri!"
    "batagor")
        echo "Batagore mas budi mantap bat"
    "cireng")
        echo "Cireng kantin rasanya unch-unch"
    *)
        echo "Makanan yang kamu suka gmnah hehe"
esac
```

10. Soal Percabangan Aritmatika

```
amanda@amanda-VirtualBox:~/tugasamanda$ nano Tugas_2.sh
amanda@amanda-VirtualBox:~/tugasamanda$ bash Tugas_2.sh
Masukkan nilai anda :88
selamat anda lulus
amanda@amanda-VirtualBox:~/tugasamanda$ bash Tugas_2.sh
Masukkan nilai anda :38
anda gagal
amanda@amanda-VirtualBox:~/tugasamanda$
```

```
amanda@amanda-VirtualBox: ~/tugasamanda
File Edit View Search Terminal Help
GNU nano 6.2 Tugas_2.sh
*/bin/bash

echo -n "Masukkan nilai anda :-"
read nilai
if [ $nilai -gt 60 ]; then
echo "selamat anda lulus"
else
echo "anda gagal"
fi

[ Read 10 lines ]
? Help      ? Write Out  ? Where Is   ? Cut        ? Execute    ? Location
? Exit      ? Read File  ? Replace    ? Paste      ? Justify    ? Go To Line
```