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Matkul: **Sistem Operasi (B)**

Tugas Week **2**

1. String

2. Array

3. Integer

```
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ bash integer.sh
579
rizal@rizal-ThinkPad-T440:~/Sisop_week2$
```

4. Aritmatika

```
GNU nano 4.8                          aritmatika.sh
#!/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 subtitusi $((ekspresi))
mod=$(($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"
```

```
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ bash aritmatika.sh
a + b = 22
a - b = 8
a * b = 105
a / b = 2
a % b = 1
a = 15
b = 15
rizal@rizal-ThinkPad-T440:~/Sisop_week2$
```

5. Input

```
GNU nano 4.8                          input.sh
#!/bin/bash
clear
echo -n "Hallo, masukkan nama anda : ";
read nama;
echo "Selamat datang $nama didalam terminal linux";
```

```
Hallo, masukkan nama anda : jihyo
Selamat datang jihyo didalam terminal linux
rizal@rizal-ThinkPad-T440:~/Sisop_week2$
```

6. Output

a.)


```
GNU nano 4.8                          output.sh
#!/bin/bash
matakuliah="Sistem Operasi"
echo "Siapa namamu?"
read nama
echo -e "\nHai $nama!\nSelamat datang di praktikum $matakuliah:))))"
```

```
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ bash output.sh
Siapa namamu?
yeji

Hai yeji!
Selamat datang di praktikum Sistem Operasi:))))
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ 
```

b.)


```
GNU nano 4.8                          output1.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;
```

```
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ bash output1.sh
OS : Ubuntu 19.04 LTS
3
55,00 float
55,0 float
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ 
```

7. Percabangan
   a.)

```
  GNU nano 4.8                          percabangan.sh
#!/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
```

```
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ bash percabangan.sh
a lebih besar dari b
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ ▯
```

   b.)

```
  GNU nano 4.8                          percabangan1.sh
#!/bin/bash

 printf "gunung apa yang kamu suka ?\n"
 printf "ciremai ?\n"
 printf "wilis ?\n"
 printf "kawi ?\n"

 read gunung

 case "$gunung" in
 "ciremai")
 echo "ciremai banyak babinya seru lur!"
 ;;
 "wilis")
 echo "wilis medannya mantap bat"
 ;;
 "kawi")
 echo "kawi kabutnya gaada obat"
 ;;
 *)
```

```
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ bash percabangan1.sh
gunung apa yang kamu suka ?
ciremai ?
wilis ?
kawi ?
kawi
kawi kabutnya gaada obat
rizal@rizal-ThinkPad-T440:~/Sisop_week2$
```

TUGAS

```
          rizal@rizal-ThinkPad-T440: ~/Sisop_week2

  GNU nano 4.8              percabangan_aritmatika.sh
echo "Masukkan nilai a= "
read a
echo "Masukkan nilai b= "
read b

if [ $a -eq $b ]
then
echo "$a sama dengan $b"
elif [ $a -gt $b ]
then
echo "$a lebih dari $b"
elif [ $a -lt $b ]
then
echo "$a kurang dari $b"
else
echo "Tidak ada kondisi yang memenuhi"
fi
```

```
rizal@rizal-ThinkPad-T440:~/Sisop_week2$ bash percabangan_aritmatika.sh
Masukkan nilai a=
12
Masukkan nilai b=
56
12 kurang dari 56
rizal@rizal-ThinkPad-T440:~/Sisop_week2$
```