LAPORAN SISTEM OPERASI

PEMROGRAMAN BASH SHELL PADA SYSTEM OPERASI LINUX

"Disusun dalam rangka memenuhi salah satu tugas pada mata kuliah Sistem Operasi Oleh Dosen Candrasena Setiadi, ST., M.MT"



Disusun oleh:

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\$ Lakukan perintah berikut: \$

who

whoami

Ls

```
[jag® LAPTOP-CEEMFUHE)-[~]
$ ls
```

mkdir testing

sudo su

mkdir testing

cd testing

touch index.js

ls

```
(root@ LAPTOP-CEEMFUHE)-[/home/jag/testing]
# touch index.js

(root@ LAPTOP-CEEMFUHE)-[/home/jag/testing]
# ls
index.js

cd..
ls
```

```
(root@LAPTOP-CEEMFUHE)-[/home/jag/testing]
# cd ..

(root@LAPTOP-CEEMFUHE)-[/home/jag]
# ls
testing
```

clear

rm -rf testing*

```
(root@ LAPTOP-CEEMFUHE)-[/home/jag]
# rm -rf testing

(root@ LAPTOP-CEEMFUHE)-[/home/jag]
# |
```

\$ Langkah pemrograman shell: \$

nano uji.sh

#!/bin/bash

echo "saya super admin"

```
#!/bin/bash
echo"saya super admin"
```

۸X

Y

```
Save modified buffer?
Y Yes
N No ^C Cancel
```

Ls

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# ls
uji.sh
```

ls –l uji.sh

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# ls -l uji.sh
-rw-r--r-- 1 root root 35 May 16 11:02 uji.sh
```

chmod +x uji.sh

./uji.sh

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# chmod +x uji.sh

(root@LAPTOP-CEEMFUHE)-[/home/jag]
# ./uji.sh
./uji.sh: line 2: echosaya super admin: command not found
```

nano uji2.sh

\$ File sederhana \$

#!/bin/bash

#Program shell

#

var1=y

echo \$var1

```
#!/bin/bash
#Program shell
#
var1=y
echo $var1
```

۸_X

Y

```
Save modified buffer?
Y Yes
N No ^C Cancel
```

chmod +x uji2.sh

./uji2.sh

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# chmod +x uji2.sh

(root@LAPTOP-CEEMFUHE)-[/home/jag]
# ./uji2.sh
y
```

\$ shell interaktif 1 \$

vpt=var1=Y

echo \$vpt

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# vpt=var1=Y

(root@LAPTOP-CEEMFUHE)-[/home/jag]
# echo $vpt
var1=Y
```

\$ shell interaktif 2 \$

v1=2

v2='+'

```
v4='='
v5=7
    (root@LAPTOP-CEEMFUHE)-[/home/jag]
   # v1=2
    ·(root®LAPTOP-CEEMFUHE)-[/home/jag]
   # v2='+'
    (root® LAPTOP-CEEMFUHE)-[/home/jag]
   # v3=5
    (root® LAPTOP-CEEMFUHE)-[/home/jag]
   # v4='='
    (root

LAPTOP-CEEMFUHE)-[/home/jag]
   # v5=7
v6=$v1$v2$v3$v4$v5
    (root® LAPTOP-CEEMFUHE)-[/home/jag]
   # v6=$v1$v2$v3$v4$v5
echo v6
    (root

LAPTOP-CEEMFUHE)-[/home/jag]
  # echo $v6
2+5=7
$ Read string $
read jenis
pria
echo $jenis
```

v3=5

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# read jenis
pria

(root@LAPTOP-CEEMFUHE)-[/home/jag]
# echo $jenis
pria
```

\$ penjumlahan aritmatik \$
nano aritmatik.sh
#!/bin/bash

a=17

b=3

let result=\$a+\$b;

echo "\$result"

```
#!/bi/bash
a=17
b=3
let result=$a+$b;
echo"$result"
```

 \land_X

Y

```
Save modified buffer?
Y Yes
N No ^C Cancel
```

chmod +x aritmatik.sh

./aritmatik.sh

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# chmod +x aritmatik.sh

(root@LAPTOP-CEEMFUHE)-[/home/jag]
# ./aritmatik.sh
"20"
```

```
$ .is $
```

nano code.js

const data = "saya super admin"

console.log(data);

```
const data = "saya super admin"
console.log(data);
```

۸_X

Y

```
Save modified buffer?
Y Yes
N No ^C Cancel
```

cat code.js

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# cat code.js
const data = "saya super admin"
console.log(data);
```

node code.js

```
root⊛ LAPTOP-CEEMFUHE)-[/home/jag]
# node code.js
Could not find command-not-found database. Run 'sudo apt update' to populate it.
```

\$ Install \$

apt install nodejs

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# apt install nodejs
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package nodejs
```

apt update

```
(root@ LAPTOP-CEEMFUHE)-[/home/jag]

# apt update

Get:1 http://mirror.primelink.net.id/kali kali-rolling InRelease [41.5 kB]

Get:2 http://mirror.primelink.net.id/kali kali-rolling/main amd64 Packages [19.1 MB]

Get:3 http://mirror.primelink.net.id/kali kali-rolling/main amd64 Contents (deb) [44.4 MB]

Get:4 http://mirror.primelink.net.id/kali kali-rolling/contrib amd64 Packages [101 kB]

Get:5 http://mirror.primelink.net.id/kali kali-rolling/contrib amd64 Contents (deb) [219 kB]

Get:6 http://mirror.primelink.net.id/kali kali-rolling/non-free amd64 Packages [192 kB]

Get:7 http://mirror.primelink.net.id/kali kali-rolling/non-free amd64 Contents (deb) [863 kB]

Get:8 http://mirror.primelink.net.id/kali kali-rolling/non-free-firmware amd64 Packages [33.0 kB]

Get:9 http://mirror.primelink.net.id/kali kali-rolling/non-free-firmware amd64 Contents (deb) [16.9 kB]

Fetched 64.9 MB in 26s (2,505 kB/s)

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

76 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

apt upgrade

node code.js

```
(root@LAPTOP-CEEMFUHE)-[/home/jag]
# node code.js
saya super admin
```

\$ World wide web and get http https (wget) \$

wget

https://drive.google.com/file/d/1kQwK1fjfbBkC4WQKhOmv4IiJ3b22i3D_/view?usp=drive_link

```
[root® LAPTOP-CEEMFUHE] - [/home/jag]
# wget https://drive.google.com/file/d/1kQwK1fjfbBkC4WQKhOmv4IiJ3b22i3D_/v
iew?usp=drive_link
--2024-05-16 12:41:22-- https://drive.google.com/file/d/1kQwK1fjfbBkC4WQKhOmv4IiJ3b22i3D_/view?usp=drive_link
Resolving drive.google.com (drive.google.com)... 74.125.200.102, 74.125.200.
139, 74.125.200.138, ...
Connecting to drive.google.com (drive.google.com) | 74.125.200.102 | :443... connected.
HTTP request sent, awaiting response... 401 Unauthorized
```

http://192.168.73.195/File-SisOp.zip

sudo apt install wget

```
$ Condition shell pada linux $
#!/bin/bash
tmer=10
while [ $tmer -gt 0 ]
do
echo "... $tmer"
tmer=\$((tmer -1))
sleep 10s
done
#!/bin/bash
tmer=10
while [ $tmer -gt 0 ]
do
echo "timer ticker is $tmer"
tmer=$((tmer -1))
sleep 1s
done
   -(root@LAPTOP-CEEMFUHE)-[/home/jag]
_# ./coba.sh
timer ticker is 10
timer ticker is 9
timer ticker is 8
timer ticker is 7
timer ticker is 6
timer ticker is 5
timer ticker is 4
timer ticker is 3
timer ticker is 2
timer ticker is 1
$ Pemrograman condition shell $
clear
echo "Stok barang hari ini";
echo "....";
echo "1. beras";
```

```
echo "2. gula";
echo "3. Garam";
echo "4.exit";
read –p *pilih barang keluar [1-4]:* pil;
if [ $pil -eq 1 ];
then
echo "banyak barang = *;
read jum
let bayar=jum*10000;
elif [ $pil -eq 4 ];
then
exit 0
else
echo "Barang tidak tersedia"
exit 1
fi
echo "harga bayar = Rp. $bayar"
echo "Terimakasih atas kunjungan anda"
echo "Kantin TI"
 echo "Stok barang hari ini"
echo "1.beras"
echo "2.gula";
echo "3.Garam"
echo "4.Kacang";
echo "5.exit"
echo "pilih barang keluar[1-4]:";
if [ $pil -eq 1 ];
echo "banyak barang=";
read jum
 let bayar=jum*10000;
```

nano kasir.sh

ls –l kasir.sh

chmod +x kasir.sh

ls –l kasir.sh

./kasir.sh