TUGAS SHELL LINUX

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



Disusun oleh:

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JURUSAN TEKNOLOGI INFORMASI
PRODI D-IV TEKNIK INFORMATIKA
POLITEKNIK NEGERI MALANG

Pemrograman bash shell pada system operasi linux

\$ Lakukan perintah berikut: \$

• WHO



WHOAMI



• LS



• MKDIR TESTING



SUDO SU

```
—(kali⊕kali)-[~/testing]
```

MKDIR TESTING

```
—(kali⊕kali)-[~]
s mkdir testing
mkdir: cannot create directory 'testing': File exists
```

CD TESTING

```
—(kali⊛kali)-[~]
└$ cd testing
```

TOUCH INDEX.JS

```
-(root@kali)-[/home/kali/testing]
| touch index.js
```

LS

```
(root® kali)-[/home/kali/testing]
# ls
index.js
```

CD ..

```
—(root@ kali)-[/home/kali/testing]
-# cd ..
  root@kali)-[/home/kali]
```

LS

```
1)-[/home/kali]
Desktop Documents Downloads Music Pictures Public Templates testing uji2.sh uji.sh Videos
```

• CLEAR

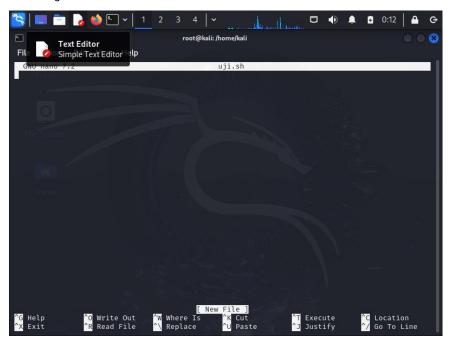
```
-(root@kali)-[/home/kali]
```

RM -RF TESTING*

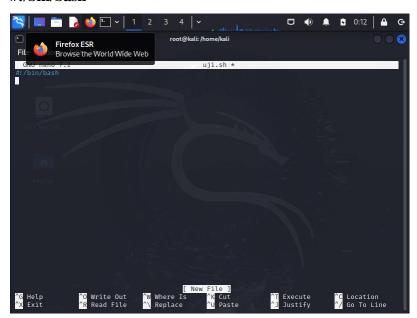
```
(root@kali)-[/home/kali]
rm -rf testing*
  <mark>root® kali</mark>)-[/home/kali]
```

\$ Langkah pemrograman shell: \$

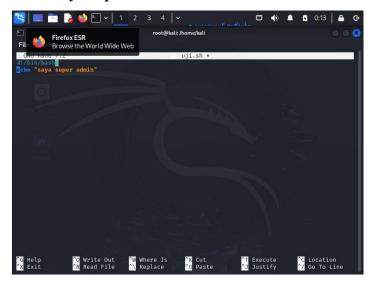
• nano uji.sh



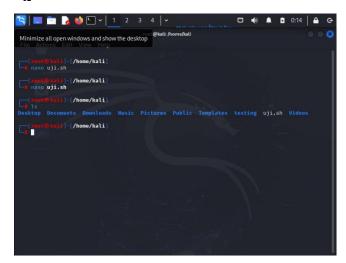
• #!/bin/bash



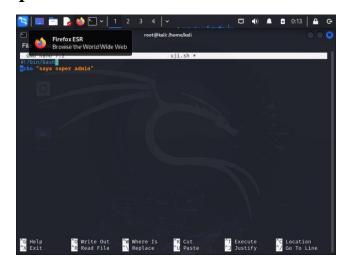
• echo "saya super admin"



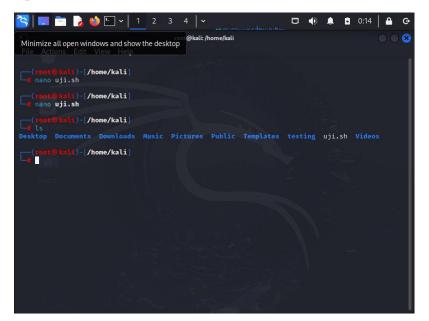
• ^X



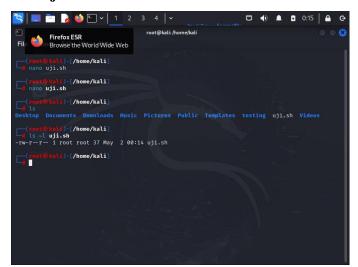
• Y



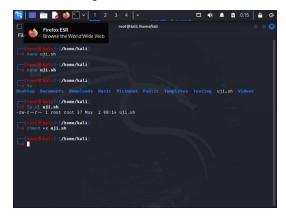
• Ls



• ls –l uji.sh



• chmod +x uji.sh



• ./uji.sh

```
Minimize all open windows and show the desktop

File Actions Edit View Help

(root@kali)-[/home/kali]

# nano uji.sh

(root@kali)-[/home/kali]

# socions boundeds Music Pictures Public Templates testing uji.sh Videos

(root@kali)-[/home/kali]

# s - uji.sh

(root@kali)-[/home/kali]

# chmod +x uji.sh

(root@kali)-[/home/kali]

# chmod +x uji.sh

(root@kali)-[/home/kali]

# saya super admin

(root@kali)-[/home/kali]
```

\$ File sederhana \$

• nano uji2.sh



- #!/bin/bash
- #Program shell
- #
- var1=y

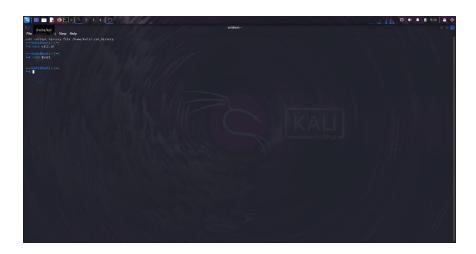




• Y



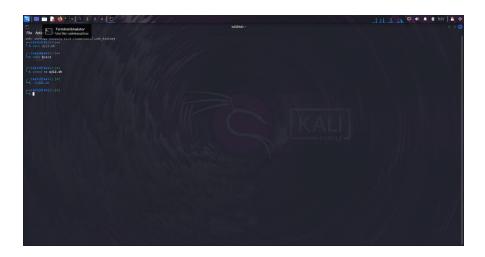
• echo \$var1



• chmod +x uji2.sh



• ./uji2.sh



\$ shell interaktif 1 \$

• VPT=VAR1=Y

```
(root@kali)-[/home/kali]
# vpt=var1=y
```

• ECHO \$VPT

```
(root@kali)-[/home/kali]
# echo $vpt
var1=y
```

\$ shell interaktif 2 \$

• V1=2

```
└# v1=2
```

• V2='+'

```
(root@ kali)-[/home/kali]
# v2='+'
```

• V3=5

```
(root9 kali)-[/home/kali]
w3=5
```

• V4='='

```
(root@kali)-[/home/kali]
```

• V5=7

```
(root@kali)-[/home/kali]
# v5=7
```

V6=\$V1\$V2\$V3\$V4\$V5

```
(root@kali)-[/home/kali]
# v6=$v1$v2$v3$v4$v5
```

• ECHO V6

```
(root@ kali)-[/home/kali]
# echo $v6
2+5=7
```

\$ Read string \$

• READ JENIS

```
<mark>__(root⊕kali</mark>)-[/home/kali]
# read jenis
pria
```

• PRIA

```
(root@ kali)-[/home/kali]
# read jenis
pria
```

• ECHO \$JENIS

```
(root@kali)-[/home/kali]
pria
```

\$ Penjumlahan aritmatik \$

• NANO ARITMATIK.SH

```
(root@kali)-[/home/kali]
# nano aritmatika.sh
```

• #!/BIN/BASH

```
#!/bin/bash
```

• A=17

A=17

• B=3

B=3

• LET RESULT=\$A+\$B;

```
let RESULT =$A+$B;
```

• ECHO "\$RESULT"

```
echo "$RESULT"
```

^X



• \



• CHMOD +X ARITMATIK.SH

```
(root@kali)-[/home/kali]
# chmod +x aritmatika.sh
```

• ./ARITMATIK.SH

```
(root@ kali)-[/home/kali]
// aritmatika.sh
20
```

NANO CODE.JS

```
—(<mark>root⊕kali</mark>)-[/home/kali]
—# nano code.js
```

• CONST DATA = "SAYA SUPER ADMIN"

```
GNU nano 7.2
const data = "Saya super admin"
```

• CONSOLE.LOG(DATA);

```
console.log(data);
```

^X



• Y



CAT CODE.JS

```
(root@kali)-[/home/kali]
g cat code.js
const data = "Saya super admin"
console.log(data);
```

NODE CODE.JS

```
(root@kali)-[/home/kali]
# node code.js
Saya super admin
```

APT INSTALL NODEJS

```
root@ kali)-[/home/kali]
apt install nodejs
Reading package lists... Done
Building dependency tree ... Done
Reading state information... Done
   Unable to locate package nodejs
```

APT UPDATE

```
(***Toot@kall) - [/home/kall]

apt update

Get:1 http://kali.cs.nycu.edu.tw/kali kali-rolling InRelease [41.5 kB]

Get:2 http://kali.cs.nycu.edu.tw/kali kali-rolling/main amd64 Packages [19.1 MB]

Get:3 http://kali.cs.nycu.edu.tw/kali kali-rolling/contrib amd64 Contents (deb)

[44.4 MB]

Get:6 http://kali.cs.nycu.edu.tw/kali kali-rolling/contrib amd64 Packages [101 kB]

Get:5 http://kali.cs.nycu.edu.tw/kali kali-rolling/contrib amd64 Packages [121 kB]

Get:6 http://kali.cs.nycu.edu.tw/kali kali-rolling/non-free amd64 Packages [192 kB]

Get:7 http://kali.cs.nycu.edu.tw/kali kali-rolling/non-free amd64 Contents (deb) [863 kB]

Get:8 http://kali.cs.nycu.edu.tw/kali kali-rolling/non-free-firmware amd64 Packages [33.0 kB]

Get:9 http://kali.cs.nycu.edu.tw/kali kali-rolling/non-free-firmware amd64 Contents (deb) [16.9 kB]

Fetched 64.9 MB in 2min 11s (497 kB/s)

Reading package lists... Done

Building dependency tree ... Done

Reading state information ... Done

825 packages can be upgraded. Run 'apt list —upgradable' to see them.
```

APT UPGRADE



NODE CODE.JS

```
Processing triggers for ca-certificates-java (20240118) ...
Processing triggers for ta-tertrifates-java (20/40/18 done.

Setting up openjdk-21-jre:amd64 (21.0.2+13-2) ...

Setting up burpsuite (2024.3.1.3-0kali1) ...

Setting up kali-tools-top10 (2024.2.3) ...

Processing triggers for ca-certificates (20240203) ...

Updating certificates in /etc/ssl/certs ...

0 added, 0 removed; done.

Running hooks in /etc/ca-certificates/update.d ...

done
 done.

Processing triggers for libc-bin (2.37-15) ...

Processing triggers for tex-common (6.18) ...

Running updmap-sys. This may take some time ... done.

Running mktexlsr /var/lib/texmf ... done.

Building format(s) -all.

This may take some time ... done.

Processing triggers for dbus (1.14.10-4) ...

Processing triggers for ca-certificates-java (20240118) ...

done.
```

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

WGET

https://drive.google.com/file/d/1kQwK1fjfbBkC4WQKhOmv4liJ3b22i3D /view?usp=drive link

http://192.168.73.195/File-SisOp.zip

```
--2024-05-16 01:09:48-- https://drive.google.com/file/d/1kQwK1fjfbBkC4WQKhOmv4IiJ3b22i3D_/view?usp=drive_link
Resolving drive.google.com (drive.google.com)... 74.125.24.101, 74.125.24.100, 74.125.24.102, ...
Connecting to drive.google.com (drive.google.com)|74.125.24.101|:443... connected.
HTTP request sent, awaiting response... 401 Unauthorized
Username/Password Authentication Failed.
zsh: no such file or directory: http://192.168.73.195/File-SisOp.zip
```

SUDO APT INSTALL WGET

```
The ands not install uses

Reading package lists... Done

Reading sackage lists and sackage lists... Done

Reading sackage were automatically installed

Are following packages were

Are following packages

Are following packages
```

\$ Condition shell pada linux \$

#!/BIN/BASH

TMER=10

WHILE [\$TMER -GT 0]

DO

ECHO "... \$TMER"

TMER=\$((TMER -1))

SLEEP 10S

```
while [ Shmer -gt 0 ]

do

echo "timer ticker is $tmer"
tmer=$((tmer -1))
sleep is

done
```

DONE

```
(roots hals)-[/home/kali]

//timer.sh

ticker is 24

ticker is 23

ticker is 21

ticker is 20

timer ticker is 19

timer ticker is 18

timer ticker is 16

timer ticker is 16

timer ticker is 15

timer ticker is 15

timer ticker is 13

timer ticker is 11

timer ticker is 12

timer ticker is 11

timer ticker is 11

timer ticker is 11

timer ticker is 11

timer ticker is 10

timer ticker is 10

timer ticker is 8

timer ticker is 7

timer ticker is 7

timer ticker is 6

timer ticker is 6

timer ticker is 4

timer ticker is 4

timer ticker is 3

timer ticker is 2

timer ticker is 2

timer ticker is 2

timer ticker is 3

timer ticker is 2

timer ticker is 2

timer ticker is 2

timer ticker is 1
```

• Code

\$ 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;

cho "5. exit" ead -p "pilih barang keluar [1-5] : " pil

IF [\$PIL -EQ 1];
THEN
ECHO " BANYAK BARANG = *;
READ JUM
LET BAYAR=JUM*10000;

```
if [ $pil -eq 1 ]
then
echo "banyak barang = "
read jum
let bayar=jum*10000
echo "total bayar = $bayar"
```

• ELIF [\$PIL -EQ 4]; THEN EXIT 0 elif [\$pil -eq 5] then exit 0

ELSE
 ECHO "BARANG TIDAK TERSEDIA"

 EXIT 1

```
else
echo "barang tidak tersedia"
exit 1
fi
```

FI
 ECHO "HARGA BAYAR = RP. \$BAYAR"
 ECHO "TERIMAKASIH ATAS KUNJUNGAN ANDA"
 ECHO " KANTIN TI"

```
echo "harga bayar = rp. $bayar"
echo "terimakasih atas kunjungan anda"
echo "kantin ti"
```

- NANO KASIR.SH
- LS -L KASIR.SH
- CHMOD +X KASIR.SH
- LS -L KASIR.SH

```
(root@hali) [/home/kali]
nano kasir.sh

(root@hali) [/home/kali]
s = 1 kasir.sh

-rw-r-r- 1 root root 789 May 16 01:49 kasir.sh

(root@hali) [/home/kali]
s chmod +x kasir.sh

(root@hali) [/home/kali]
s 1 kasir.sh

-rwxr-xr-x 1 root root 789 May 16 01:49 kasir.sh
```

./KASIR.SH

Code

```
echo "stok barang hari ini"
echo "......"
echo "1. beras"
echo "2. gula"
echo "3. garam"
echo "4. micin"
echo "5. exit"
read -p "pilih barang keluar [1-5] : " pil
if [ $pil -eq 1 ]
   then
    echo "you selected beras"
   echo "banyak barang = "
    read jum
    let bayar=jum*10000
    echo "total bayar = $bayar"
elif [ $pil -eq 2 ]
   then
    echo "you selected gula"
    echo "banyak barang = "
    read jum
    let bayar=jum*5000
    echo "total bayar = $bayar"
elif [ $pil -eq 3 ]
   then
    echo "you selected garam"
    echo "banyak barang = "
    read jum
    let bayar=jum*15000
```

```
echo "total bayar = $bayar"
elif [ $pil -eq 4 ]
   then
   echo "you selected micin"
   echo "banyak barang = "
   read jum
   let bayar=jum*25000
   echo "total bayar = $bayar"
elif [ $pil -eq 5 ]
   then
exit 0
else
echo "barang tidak tersedia"
exit 1
fi
echo "harga bayar = rp. $bayar"
echo "terimakasih atas kunjungan anda"
echo "kantin ti"
```