

Calvien Danny N

21083010040 – Sistem Operasi A

A. Array Indirect Declaration

```
calviendanny@calviendanny-VirtualBox: ~/tugasku/sisop
File Edit View Search Terminal Help
'belajar bash dasar' Documents Music Public tugasku
Desktop Downloads Pictures Templates Videos
calviendanny@calviendanny-VirtualBox:~$ cd tugasku
calviendanny@calviendanny-VirtualBox:~/tugasku$ ls
sisop
calviendanny@calviendanny-VirtualBox:~/tugasku$ cd sisop
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ ls
array.sh      output1.sh      test.sh          Tugas1.sh
forloop1.sh   output2.sh      text.txt         Tugas-2.sh
forloop2.sh   percabangan1.sh Tugas-1.pdf      tugas4.sh
forloop.sh    percabangan2.sh Tugas-1.py       untilloop.sh
input.sh      pertemuan3.sh   Tugas1.py        while.sh
integer.sh    selectloop.sh   'Tugas-1(revisi).pdf'
op_mtk.sh     string.sh       Tugas-1.sh
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ nano Array_ID.sh
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ bash Array_ID.sh
BlankOn Ubuntu Debian ArchLinux LinuxMint
Array_ID.sh: line 14: unexpected EOF while looking for matching `}'
Array_ID.sh: line 15: syntax error: unexpected end of file
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ nano Array_ID.sh
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ bash Array_ID.sh
BlankOn Ubuntu Debian ArchLinux LinuxMint
UbuntuServer CentOS FedoraServer
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$
```

```
calviendanny@calviendanny-VirtualBox: ~/tugasku/sisop
File Edit View Search Terminal Help
GNU nano 6.2 Array_ID.sh
#!/bin/bash

distroLinuxDesktop[0]=BlankOn
distroLinuxDesktop[1]=Ubuntu
distroLinuxDesktop[2]=Debian
distroLinuxDesktop[3]=ArchLinux
distroLinuxDesktop[4]=LinuxMint

distroLinuxServer[0]=UbuntuServer
distroLinuxServer[1]=CentOS
distroLinuxServer[2]=FedoraServer

echo ${distroLinuxDesktop[*]}
echo ${distroLinuxServer[*]}

[ Read 14 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute  ^C Location
^X Exit      ^R Read File ^N Replace   ^U Paste     ^J Justify  ^_ Go To Line
```

B. Array Explicit Declaration

```
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ bash Array_ED.sh
0 2 4 6 8
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$
```

```
File Edit View Search Terminal Help
GNU nano 6.2 Array_ED.sh
#!/bin/bash

declare -a angka

#clear
i=0;
while [ $i -le 4 ];
do
    let isi=$i*2;
    angka[$i]=$isi;
    let i=$i+1;
done

echo ${angka[@]}
```

[Read 14 lines]

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^N Replace	^U Paste	^J Justify	^_ Go To Line

C. Array Compound Assignment

```
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ bash Array_CA.sh
babi indomi sapi tulang ikan kamu
darah anggur zam-zam
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$
```

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

```
makanan=('babi' 'indomi' 'sapi' 'tulang ikan' 'kamu')
```

```
minuman=('darah' 'anggur' 'zam-zam')
```

```
echo ${makanan[*]}
```

```
echo ${minuman[*]}
```

[Read 7 lines]

^G Help
^X Exit

^O Write Out
^R Read File

^W Where Is
^\\ Replace

^K Cut
^U Paste

^T Execute
^J Justify

^C Location
^/ Go To Line

D. Array Multi Dimensi

```
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ nano Array_MD.sh
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ bash Array_MD.sh
1.1 1.2 1.3 1.4
2.1 2.2 2.3 2.4
3.2 3.2 3.3 3.4
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$
```

```
#!/bin/bash

array2dimensi="1.1:1.2:1.3:1.4 2.1:2.2:2.3:2.4 3.2:3.2:3.3:3.4"

function dimensiBaris {
    for baris in $array2dimensi
    do
        dimensiKolom `echo $baris | tr : " "`
    done
}

function dimensiKolom {
    for kolom in $*
    do
        echo -n $kolom " "
    done
    echo
}

dimensiBaris

[ Read 20 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

Latihan Soal

```
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$ bash latihantugas6.sh
Masukkan jumlah ipsmu: 3
Masukkan nilai ipsmu: 4 2 3
4
2
3
IPK mhs= 9/3
IPK mhs= 3
calviendanny@calviendanny-VirtualBox:~/tugasku/sisop$
```

```
GNU nano 6.2                                latinantugasb.sn
#!/bin/bash

declare -a jumlahIPS
read -p "Masukkan jumlah ipsmu: " jumlahIPS

declare -a nilaiIPS
read -p "Masukkan nilai ipsmu: " nilaiIPS

for i in ${nilaiIPS[@]}
do
    echo $i
    if [ $i -ge 0 ]
    then
        ((jmlhIPS=jumlahIPS))
        ((totIPS=totIPS + $i))
    fi
    ((IPK=totIPS/jumlahIPS))
done
echo "IPK mhs= $totIPS/$jumlahIPS"
```

[Read 21 lines]

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^\ Replace	^U Paste	^J Justify	^/ Go To Line