

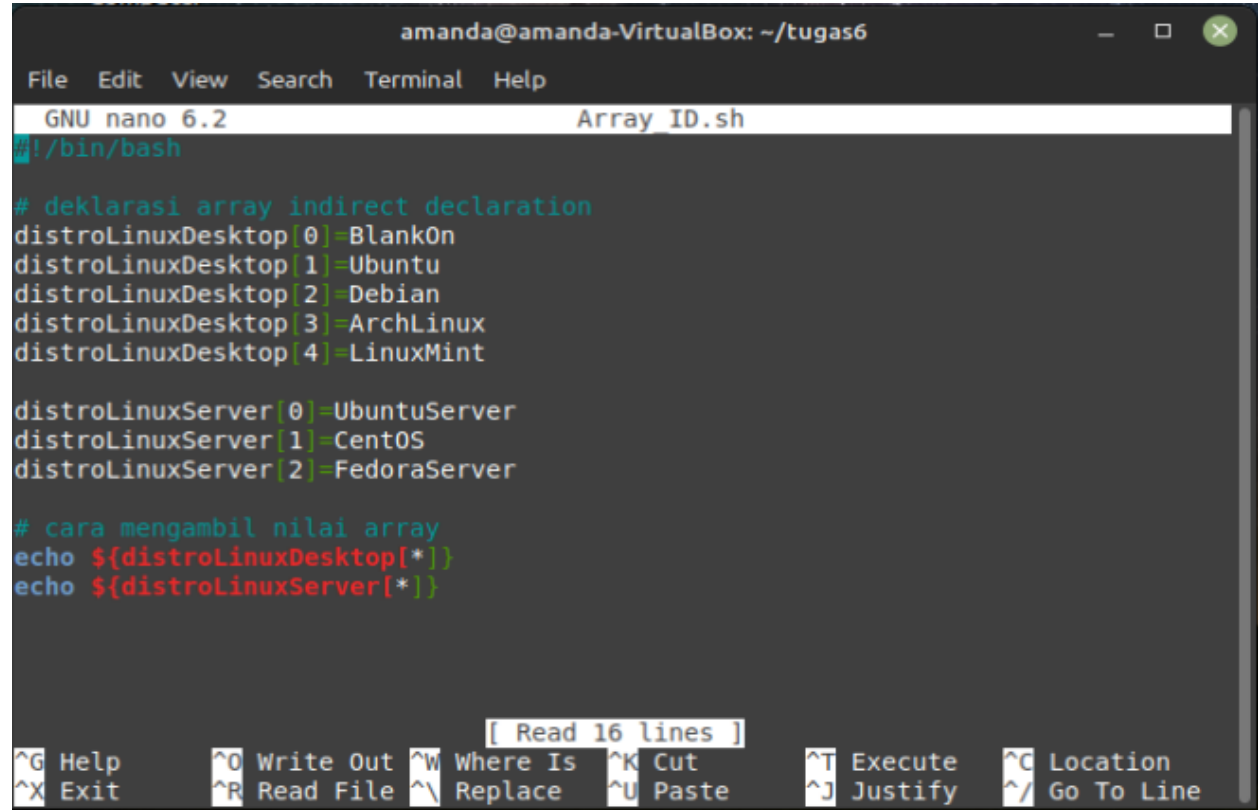
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Sistem Operasi A

Laporan Tugas 6

1. Array Indirect Declaration

Menetapkan nilai dalam indeks tertentu dari variabel array.

```
amanda@amanda-VirtualBox:~/tugas6$ nano Array_ID.sh
amanda@amanda-VirtualBox:~/tugas6$ bash Array_ID.sh
BlankOn Ubuntu Debian ArchLinux LinuxMint
UbuntuServer CentOS FedoraServer
amanda@amanda-VirtualBox:~/tugas6$
```



```
GNU nano 6.2 Array_ID.sh
#!/bin/bash

# deklarasi array indirect declaration
distroLinuxDesktop[0]=BlankOn
distroLinuxDesktop[1]=Ubuntu
distroLinuxDesktop[2]=Debian
distroLinuxDesktop[3]=ArchLinux
distroLinuxDesktop[4]=LinuxMint

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

# cara mengambil nilai array
echo ${distroLinuxDesktop[*]}
echo ${distroLinuxServer[*]}
```

2. Array Explicit Declaration

```
amanda@amanda-VirtualBox:~/tugas6$ nano Array_ED.sh
amanda@amanda-VirtualBox:~/tugas6$ bash Array_ED.sh
0 2 4 6 8
amanda@amanda-VirtualBox:~/tugas6$
```

```
amanda@amanda-VirtualBox: ~/tugas6
File Edit View Search Terminal Help
GNU nano 6.2 Array_ED.sh
#!/bin/bash

# deklarasikan array [Explicit Declaration] :
declare -a angka

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

#tampilkan semua elemen array
#dengan indexnya berisi "*" atau "@"
echo ${angka[@]}
```

[Read 17 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

3. Array Compound Assignment

```
amanda@amanda-VirtualBox:~/tugas6$ nano Array_CA.sh
amanda@amanda-VirtualBox:~/tugas6$ bash Array_CA.sh
BlankOn Ubuntu Debian ArchLinux LinuxMint
UbuntuServer CentOS FedoraServer
amanda@amanda-VirtualBox:~/tugas6$
```

```
amanda@amanda-VirtualBox: ~/tugas6
File Edit View Search Terminal Help
GNU nano 6.2 Array_CA.sh
#!/bin/bash

#deklarasi array compound assignment
distroLinuxDesktop=('BlankOn' 'Ubuntu' 'Debian' 'ArchLinux' 'LinuxMint')
distroLinuxServer=('UbuntuServer' 'CentOS' 'FedoraServer')

#cara mengambil nilai array
echo ${distroLinuxDesktop[*]}
echo ${distroLinuxServer[*]}
```

4. Array Multi Dimensi

```
amanda@amanda-VirtualBox:~/tugas6$ nano Array_MD.sh
amanda@amanda-VirtualBox:~/tugas6$ bash Array_MD.sh
1.1  1.2  1.3  1.4
2.1  2.2  2.3  2.4
3.1  3.2  3.3  3.4
amanda@amanda-VirtualBox:~/tugas6$
```

```
amanda@amanda-VirtualBox: ~/tugas6
File Edit View Search Terminal Help
GNU nano 6.2 Array MD.sh
#!/bin/bash

# deklarasi array2dimensi " : " pemisah nilai (array [3][4])
array2dimensi="1.1:1.2:1.3:1.4 2.1:2.2:2.3:2.4 3.1:3.2:3.3:3.4"

# mengakali multi dimensi -> dengan pemisah dimensi "tr :"
function dimensiBaris {
    for baris in $array2dimensi
    do
        dimensiKolom `echo $baris | tr : " "`
    done
}

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

[ Read 23 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
```

5. Latihan Soal

```
amanda@amanda-VirtualBox:~/tugas6$ nano Tugas6.sh
amanda@amanda-VirtualBox:~/tugas6$ bash Tugas6.sh
Indeks Prestasi Semester dan Indeks Prestasi Kumulatif
Nama :
Amanda
Masukkan :
3
4
2
3
IPS Mahasiswa : 9 / 3
IPK Mahasiswa : 3
amanda@amanda-VirtualBox:~/tugas6$
```

```
amanda@amanda-VirtualBox: ~/tugas6
File Edit View Search Terminal Help
GNU nano 6.2 Tugas6.sh
#!/bin/bash

echo "Indeks Prestasi Semester dan Indeks Prestasi Kumulatif"
echo "Nama : "
read nama;
echo "Masukkan : "
read inputan;
read nilai1;
read nilai2;
read nilai3;

let ips=$nilai1+$nilai2+$nilai3;
let ipk=($nilai1+$nilai2+$nilai3)/$inputan;

semester=($ips)
kumulatif=($ipk)

echo "IPS Mahasiswa : " ${semester[*]} "/" $inputan
echo "IPK Mahasiswa : " ${kumulatif[*]}

[ Read 19 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
```