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## Sistem Operasi A

## Tugas 6

## 1. Array Indirect Declaration (Array\_ID.sh)

```
File Edit View Search Terminal Help valentino@valentino-VirtualBox:~$ nano Array_ID.sh valentino@valentino-VirtualBox:~$ cd sisop/pertemuan6 bash: cd: sisop/pertemuan6: No such file or directory valentino@valentino-VirtualBox:~$ cd sisop valentino@valentino-VirtualBox:~/sisop$ ./array_id.sh ls -l total 12 drwxr-xr-x 2 valentino valentino 4096 Mar 22 10:33 tugas1.scp valentino@valentino-VirtualBox:~/sisop$ cp tugas1.scp valentino@valentino-VirtualBox:~/sisop$ nano Array_ID.sh valentino@valentino-VirtualBox:~/sisop$ cp tugas1.scp valentino@valentino-VirtualBox:~/sisop$ bash "c" valentino@valentino-VirtualBox:~/sisop/tugas1$ bash Array_ID.sh Ha Hu Hi He Windows Linux MacOS valentino@valentino-VirtualBox:~/sisop/tugas1$ [ ]
```

  

```
File Edit View Search Terminal Help valentino@valentino-VirtualBox:~/sisop/tugas6
```

```
GNU nano 6.2 Array_ID.sh
```

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

```
distroLinuxDesktop=( Ha Hu Hi He )
```

```
distroLinuxServer=( Windows Linux MacOs )
```

```
echo "cara mengambil nilai array"
```

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

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

## 2. Array Explicit Declaration (Array\_ED.sh)

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

# deklarasikan array [Explicit Declaration]
declare -a angka
Array ED.sh

#clear
#tulis | $1|ie 5 |
#i=0
#set isi=$1+5
angka $1+$isi
# i $1+1
#done

#tampilkan semua elemen array
#degnan indeksnya berisi "" atau "0"
echo ${angka[@]}

valentino@valentino-VirtualBox:~/sisop/tugas$ nano Array ED.sh
valentino@valentino-VirtualBox:~/sisop/tugas$ bash Array_ED.sh
0 5 10 15 20 25
valentino@valentino-VirtualBox:~/sisop/tugas$
```

### 3. Array Compound Assignment (Array\_CA.sh)

#### 4. Array Multi Dimensi (Array\_MD.sh)

```
valentino@valentino-VirtualBox: ~/sisop/tugas6
File Edit View Search Terminal Help
GNU nano 6.2
#!/bin/bash

# deklarasi array2dimensi ; pemisah nilai (array [3][4])
array2dimensi="1.5:1.6:1.7:1.8 2.5:2.6:2.7:2.8 3.5:3.6:3.7:3.8"

# 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
}

# melakukan penanggilan fungsi
dimensiBaris
```

  

```
valentino@valentino-VirtualBox: ~/sisop/tugas6
File Edit View Search Terminal Help
valentino@valentino-VirtualBox:~/sisop/tugas6$ nano Array_MD.sh
valentino@valentino-VirtualBox:~/sisop/tugas6$ bash Array_MD.sh
1.5 1.6 1.7 1.8
2.5 2.6 2.7 2.8
3.5 3.6 3.7 3.8
valentino@valentino-VirtualBox:~/sisop/tugas6$
```

#### 5. Tugas6.sh

```
valentino@valentino-VirtualBox: ~/sisop/tugas6
File Edit View Search Terminal Help
GNU nano 6.2
#!/bin/bash

printf "banyak semester yang sudah dilikti: "
read semester

declare -A IPMMahasiswa

i=0
let banyak=$semester-1

while [ $i -le $banyak ]
do
    let angka=$i+1
    printf "Nilai Semester %d:" $angka
    read nilaisemester
    IPMMahasiswa[$i]=$nilaisemester
    let jumlah=jumlah+$nilaisemester
    let i=i+1
done

let IPK=$jumlah/$semester
echo "Nilai per semester" ${!IPMMahasiswa[@]}
echo "Nilai IPS:" $jumlah "/"$semester
echo "Nilai IPK:" $IPK
```

  

```
valentino@valentino-VirtualBox: ~/sisop/tugas6
File Edit View Search Terminal Help
valentino@valentino-VirtualBox:~/sisop/tugas6$ nano Tugas-6.sh
valentino@valentino-VirtualBox:~/sisop/tugas6$ bash Tugas-6.sh
banyak semester yang sudah dilikti: 3
Nilai Semester 1:2
Nilai Semester 2:2
Nilai Semester 3:3
Nilai per semester 4 2 3
Nilai IPS: 9 / 3
Nilai IPK: 3
valentino@valentino-VirtualBox:~/sisop/tugas6$
```