

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/peremuan6
bash: cd: /sisop/peremuan6: No such file or directory
valentino@valentino-VirtualBox:~$ cd /sisop
valentino@valentino-VirtualBox:~/sisop$ ls
tugas1 tugas2 tugas3 tugas4 tugas6
valentino@valentino-VirtualBox:~/sisop$ cd tugas6
valentino@valentino-VirtualBox:~/sisop/tugas6$ nano Array_ID.sh
valentino@valentino-VirtualBox:~/sisop/tugas6$ bash "C
valentino@valentino-VirtualBox:~/sisop/tugas6$ bash Array_ID.sh
Ha Ha Hi Hi He
Windows Linux MacOS
valentino@valentino-VirtualBox:~/sisop/tugas6$
```

```
File Edit View Search Terminal Help
GNU nano 6.2 Array_ID.sh
distroLinuxDesktop 0 Ha
distroLinuxDesktop 1 Ha
distroLinuxDesktop 2 Hi
distroLinuxDesktop 3 Hi
distroLinuxDesktop 4 He

distroLinuxServer 0 Windows
distroLinuxServer 1 Linux
distroLinuxServer 2 MacOS

# 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 Array_ED.sh
#!/bin/bash

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

#clear
i=0
while [ $i -le 5 ];
do
    isi=$((5-$i))
    angka[$i]=$isi
    i=$((i+1))
done

#tampilkan semua elemen array
#gunakan loopnya berbasis "" atau ""
echo ${angka[@]}
```

```
File Edit View Search Terminal Help
valentino@valentino-VirtualBox:~/sisop/tugas6$ nano Array_ED.sh
valentino@valentino-VirtualBox:~/sisop/tugas6$ bash Array_ED.sh
0 5 10 15 20 25
valentino@valentino-VirtualBox:~/sisop/tugas6$
```

3. Array Compound Assignment (Array_CA.sh)

```
File Edit View Search Terminal Help
valentino@valentino-VirtualBox:~/sisop/tugas6$ nano Array_CA.sh
valentino@valentino-VirtualBox:~/sisop/tugas6$ bash Array_CA.sh
Ha Ha He He He
RiotServer NasaServer GoogleServer
valentino@valentino-VirtualBox:~/sisop/tugas6$
```

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

#deklarasi array compound assignment
distroLinuxDesktop="Ha" "Ha" "He" "He" "He"
distroLinuxServer="RiotServer" "NasaServer" "GoogleServer"

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

4. Array Multi Dimensi (Array_MD.sh)

```
valentino@valentino-VirtualBox: ~/sisop/tugas6
File Edit View Search Terminal Help
GNU nano 6.2 Array_MD.sh
#!/bin/bash
# deklarasi array2dimensi " : " pemisah nilai (array [3][4])
array2dimensi="1.5:1.6:1.7:1.8 2.5:2.6:2.7:2.8 3.5:3.6:3.7:3.8"

# mengkonversi multi dimensi -> dengan pemisah dimensi "tr :"
function dimensiBaris {
  for baris in $(array2dimensi); do
    dimensiKolon=$(echo $baris | tr ':' ' ')
    echo $baris
  done
}

function dimensiKolon {
  for kolom in $(array2dimensi); do
    echo -n $kolom " "
  done
  echo
}

# melakukan pemanggilan fungsi
dimensiBaris

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 Tugas-6.sh
#!/bin/bash
printf "Banyak semester yang sudah diikuti: "
read semester
declare -a IPSMahaasiswa

i=0
let banyak=semester-1
while [ $i -le $banyak ]; do
  let angka=$((i+1))
  printf "Nilai Semester %i:" $angka
  read nilaisemester
  IPSMahaasiswa[i]=nilaisemester
  jumlah_jumlah+=nilaisemester
  let i=$((i+1))
done

let IPK=$((jumlah/semester))
echo "nilai per semester" ${IPSMahaasiswa[@]}
echo "nilai IPS:" $jumlah "/" $semester
echo "nilai IPK:" $IPK

valentino@valentino-VirtualBox:~/sisop/tugas6$ nano Tugas-6.sh
valentino@valentino-VirtualBox:~/sisop/tugas6$ bash Tugas-6.sh
Banyak semester yang sudah diikuti: 3
nilai Semester 1:4
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$
```