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## **LAPORAN**

1. 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
echo ${distroLinuxDesktop[*]}
echo ${distroLinuxServer[*]}
```

earlyxccess@ilham-VirtualBox:~/Tugas-SISOP/Tugas6\$ bash Array\_ID.sh BlankOn Ubuntu Debian ArchLinux LinuxMint UbuntuServer CentOS FedoraServer

2. Array Explicit Declaration

```
GNU nano 6.2
declare -a angka
i=0;
while [ $i -le 4 ];
do
   let isi=$i*2;
   angka[$i]=$isi;
   let i=$i+1;
done
echo ${angka[@]}
```

earlyxccess@ilham-VirtualBox:~/Tugas-SISOP/Tugas6\$ bash Array\_ED.sh
0 2 4 6 8

3. Array Compound Assignment

```
GNU nano 6.2

distroLinuxDesktop=('BlankOn' 'Ubuntu' 'Debian' 'ArchLinux' 'LinuxMint')
distroLinuxServer=('UbuntuServer' 'CentOS' 'FedoraServer')
echo ${distroLinuxDesktop[*]}
echo ${distroLinuxServer[*]}

earlyxccess@ilham-VirtualBox:~/Tugas-SISOP/Tugas6$ bash Array_CA.sh
BlankOn Ubuntu Debian ArchLinux LinuxMint
UbuntuServer CentOS FedoraServer
```

## 4. Array Multi Dimensi

```
GNU nano 6.2

array MD.sh

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"

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

    done
}

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

dimensiBaris

earlyxccess@ilham-VirtualBox:~/Tugas-SISOP/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
```

## **TUGAS 6**

Buatlah program array yang dapat menghitung nilai IPK mahasiswa yang menerapkan beberapa konsep pemrograman bash seperti diatas dengan ketentuan sbb!

```
➤ user input data arrayIPSMahasiswa [index]

➤ IPK = (jumlah nilai IPS) / (jumlah data IPS)

Contoh Ouput:

Input: 3 4 2 3

IPS mhs = 9 /3

IPK mhs = 3
```

jawab

```
earlyxccess@ilham-VirtualBox:~/Tugas-SISOP/Tugas6$ bash Tugas6.sh
Banyak Semester Yang Sudah Diikuti : 3
milai semester 1:4
milai semester 2:2
milai semester 3:3
milai per semester 4 2 3
milai IPS: 3 / 3
milai IPK: 1
```