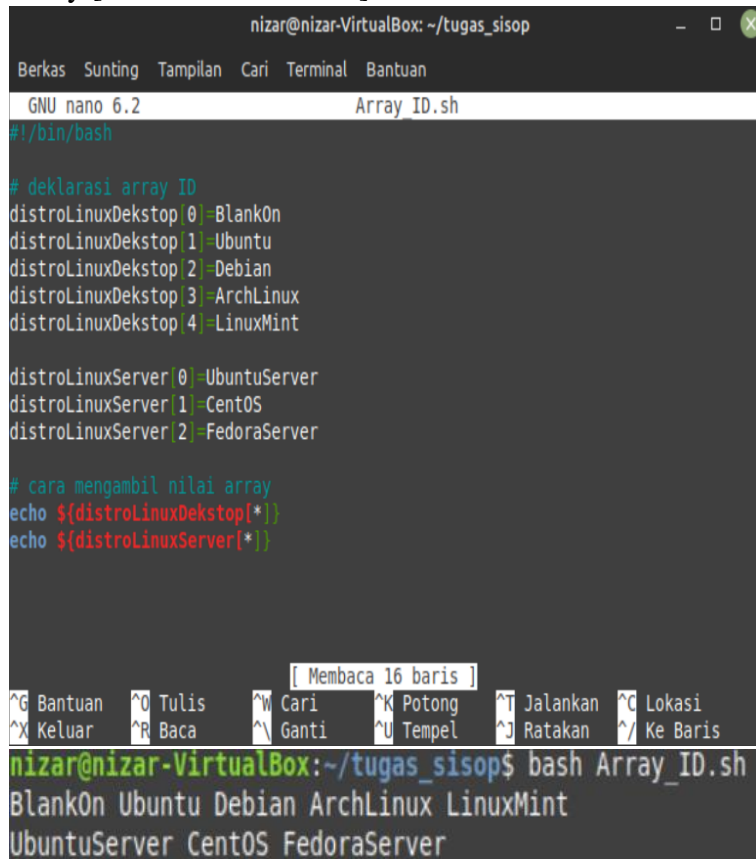Nama : Mohammad Nizar Riswanda

NPM : 21083010015

Kelas : Sisop (A)

Laporan 6

1) Array [Indirect Declaration]

2) Array [Explicit Declaration]

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[@]}
```

[Membaca 16 baris]

^G Bantuan   ^O Tulis   ^W Cari   ^K Potong   ^T Jalankan   ^C Lokasi
^X Keluar   ^R Baca   ^\ Ganti   ^U Tempel   ^J Ratakan   ^/ Ke Baris

```
nizar@nizar-VirtualBox:~/tugas_sisop$ bash Array_ED.sh
0 2 4 6 8
```

3) Array [Compound Assignment]

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[*]}
```

[Membaca 9 baris]

^G Bantuan   ^O Tulis   ^W Cari   ^K Potong   ^T Jalankan   ^C Lokasi
^X Keluar   ^R Baca   ^\ Ganti   ^U Tempel   ^J Ratakan   ^/ Ke Baris

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

4) Array Multi Dimensi

```bash
#!/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
}
```

[Membaca 23 baris]

```
nizar@nizar-VirtualBox:~/tugas_sisop$ 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
```

5) Latihan Soal [Tugas 6]

```bash
echo "Input semester :"
read semester

# deklarasi array nilai IPS
declare -a nilaiIPS

i=0
let banyak=$semester-1

while [ $i -le $banyak ];
do
  let angka=$i+1
  printf "nilai Semester %.1i = " $angka;
  read nilaisemester;
  nilaiIPS[$i]=$nilaisemester;
  let jumlah=jumlah+$nilaisemester;
  let i=$i+1;
done

let IPK=$jumlah/$semester
```

[Membaca 26 baris]

^G Bantuan   ^O Tulis   ^W Cari   ^K Potong   ^T Jalankan   ^C Lokasi
^X Keluar   ^R Baca   ^\ Ganti   ^U Tempel   ^J Ratakan   ^/ Ke Baris

```
nizar@nizar-VirtualBox:~/tugas_sisop$ bash Tugas_6.sh
Input semester :
3
nilai Semester 1 = 4
nilai Semester 2 = 2
nilai Semester 3 = 3
nilai IPS Mahasiswa tiap semester : 4 2 3
jumlah nilai IPS / banyaknya nilai IPS : 9 / 3
IPK Mahasiswa : 3
```