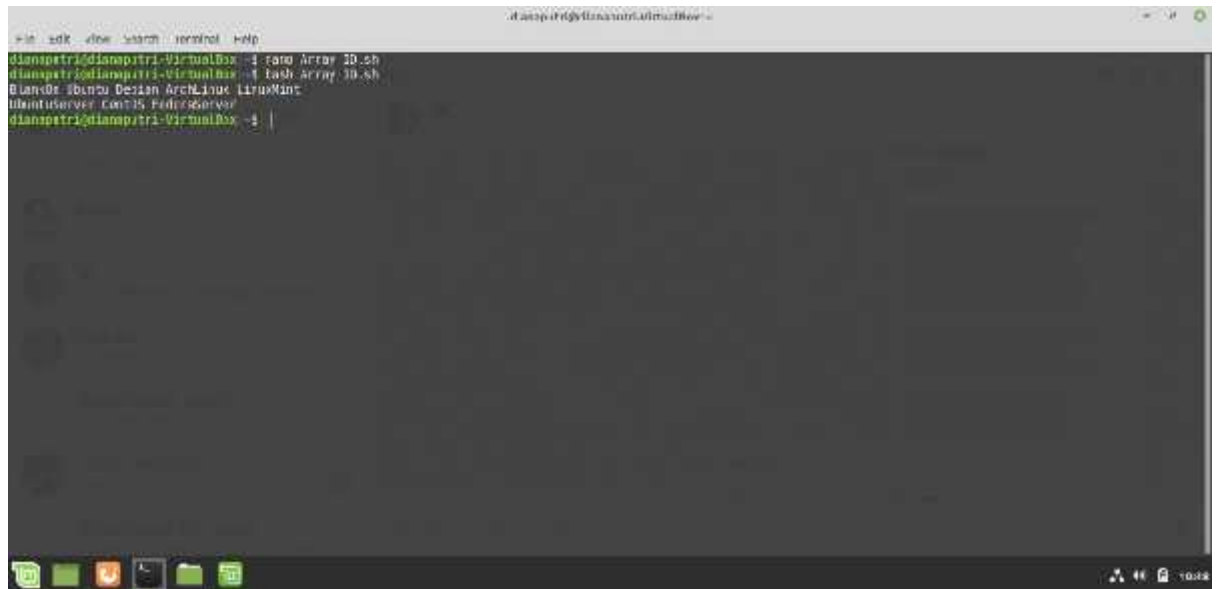
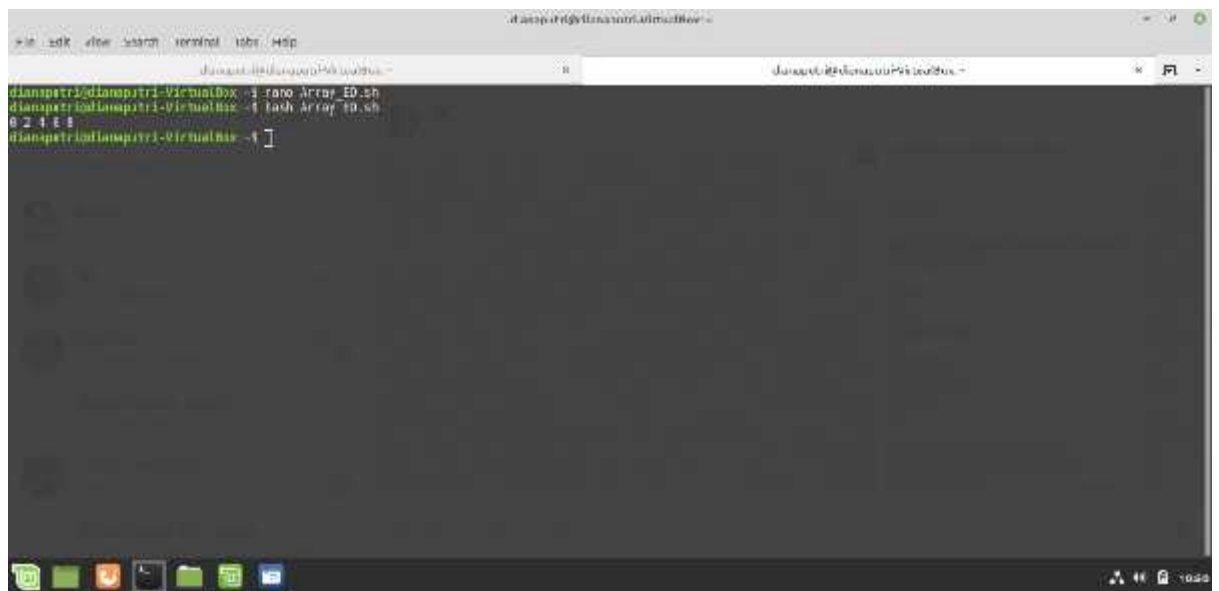


Kelas: Sitem Operasi B



2. Array Explicit Declaration



A terminal window titled 'dianapetri@diannopetri-VirtualBox: ~' is shown. The prompt is 'dianapetri@diannopetri-VirtualBox: ~'. The user has entered the command 'cat Array_E0.sh' and the output is displayed as follows:

```
dianapetri@diannopetri-VirtualBox: ~$ cat Array_E0.sh
dianapetri@diannopetri-VirtualBox: ~$ echo Array_E0.sh
0 2 4 6 8
dianapetri@diannopetri-VirtualBox: ~$
```

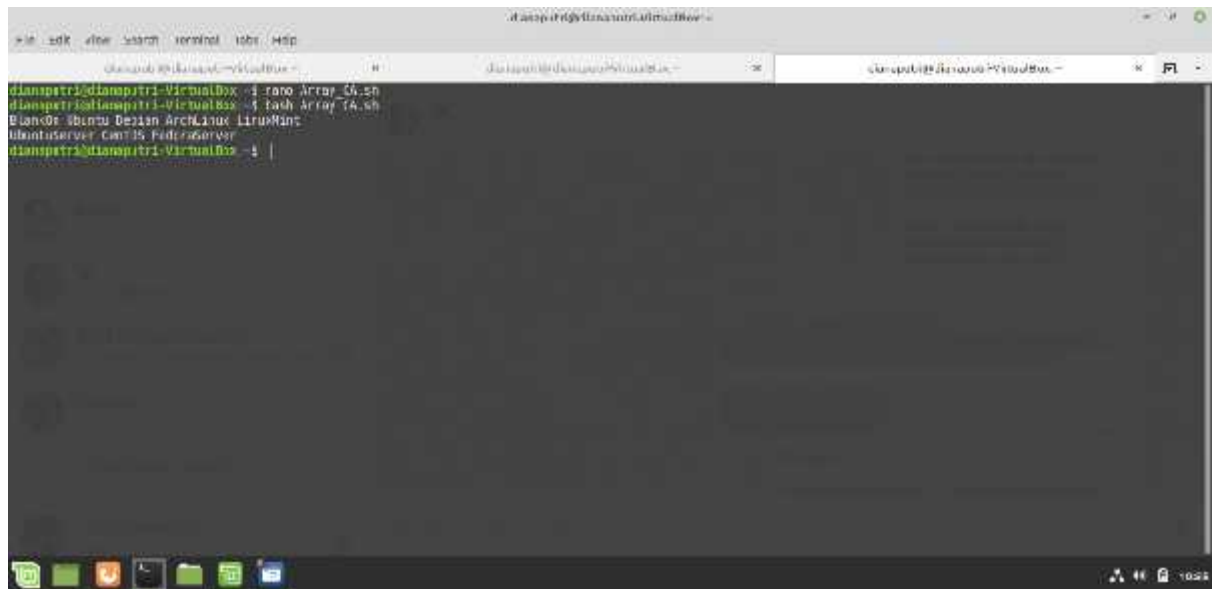


A terminal window titled 'dianapetri@diannopetri-VirtualBox: ~' is shown. The prompt is 'dianapetri@diannopetri-VirtualBox: ~'. The user has entered the command 'cat Array_E0.sh' and the output is displayed as follows:

```
dianapetri@diannopetri-VirtualBox: ~$ cat Array_E0.sh
dianapetri@diannopetri-VirtualBox: ~$ echo Array_E0.sh
0 2 4 6 8
dianapetri@diannopetri-VirtualBox: ~$
```

The terminal window has a menu bar with the following options: File, Edit, View, Search, Terminal, Help. The status bar at the bottom shows '18.04'.

3. Array Compound Assignment



```
dianapetri@dianapetri-VirtualBox: ~/Array DA.sh
dianapetri@dianapetri-VirtualBox: ~$ ./Array DA.sh
Blisko Ubuntu Debian ArchLinux LinuxMint
dianapetri@dianapetri-VirtualBox: ~$
```



```
dianapetri@dianapetri-VirtualBox: ~/Array DA.sh
dianapetri@dianapetri-VirtualBox: ~$ ./Array DA.sh
distroLinuxDesktop: 'Blisko' 'Ubuntu' 'Debian' 'ArchLinux' 'LinuxMint'
distroLinuxServer: 'UbuntuServer' 'CentOS' 'FedoraServer'
dianapetri@dianapetri-VirtualBox: ~$
```

4. Array Multi Dimensi

```
danapetri@danapetri-VirtualBox: ~$ nano Array_PD.sh
danapetri@danapetri-VirtualBox: ~$ echo Array_PD.sh
1 1 1 2 1 3 1 4
2 1 2 2 1 3 2 4
3 1 3 2 1 3 3 4
danapetri@danapetri-VirtualBox: ~$ ]
```

```
danapetri@danapetri-VirtualBox: ~/KebijakanDinas/Array_PD.sh$ cat Array_PD.sh
#!/bin/bash
array2Dlines="1 1 1 2 1 3 1 4 2 1 2 2 1 3 2 4 3 1 3 2 1 3 3 4"
function dimensiBaris {
    for baris in $(seq 1 $(wc -l < <<array2Dlines))
    do
        dimensiBaris=$(echo $array2Dlines | tr ' ' '\n' | sed -n "${baris}p" | wc -w)
    done
}
function dimensiKolom {
    for kolom in $(seq 1 $(cat <<array2Dlines | tr '\n' ' ' | wc -w))
    do
        dimensiKolom=$(echo $array2Dlines | tr ' ' '\n' | sed -n "${kolom}p" | wc -l)
    done
}
echo "dimensiBaris: $(dimensiBaris)"
echo "dimensiKolom: $(dimensiKolom)"
```

Latihan soal

```
danapetri@danapetri-VirtualBox: ~$ cat Tugas_8.sh
danapetri@danapetri-VirtualBox: ~$ ./Tugas_8.sh
Banyak Semester yang sudah diikuti?
nilai semester 1:4
nilai semester 2:7
nilai semester 3:8
nilai per semester 4 2 1
nilai IPS: 8 / 3
nilai IPA: 3
danapetri@danapetri-VirtualBox: ~$ ]
```

```
GNU nano 2.9.3 Tugas_8.sh
#!/bin/bash

printf "Banyak Semester yang sudah diikuti?"
read semester

IFS=$'\n' read -a IPSMhs:$semester
i=0
for i in $(seq 0 $((semester-1))); do
    let angkah=$((i+1))
    printf "nilai Semester %i:iti" $angkah
    read nilaisemester
    IPSMhs[i]=$nilaisemester
    let jumlah=$((jumlah+nilaisemester))
    let i=$((i+1))
done

let IPS=$((jumlah/semester))
echo "nilai per semester" $((jumlah/semester))
echo "nilai IPS:" $(printf "%i" $IPS)
echo "nilai IPA:" $IPA
```