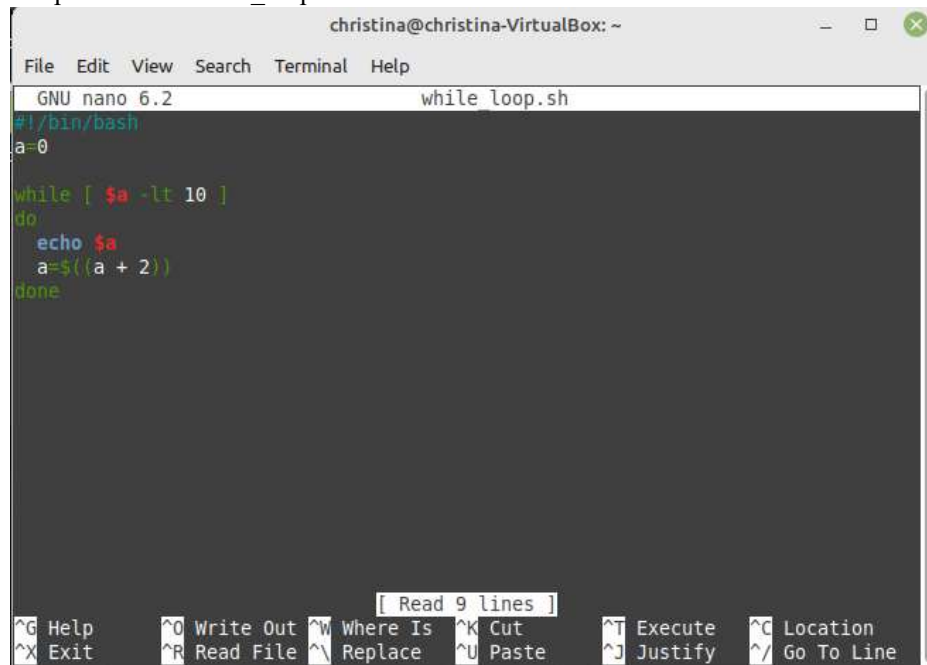


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## TUGAS 4 PRAKTIKUM

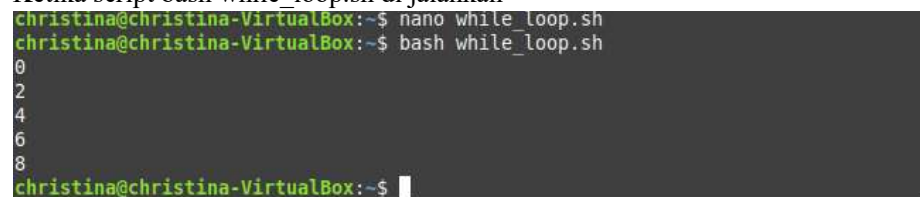
### 1. While Loop

Script bash dari while\_loop.sh



```
christina@christina-VirtualBox: ~  
File Edit View Search Terminal Help  
GNU nano 6.2 while_loop.sh  
#!/bin/bash  
a=0  
  
while [ $a -lt 10 ]  
do  
    echo $a  
    a=$((a + 2))  
done  
  
[ Read 9 lines ]  
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location  
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line
```

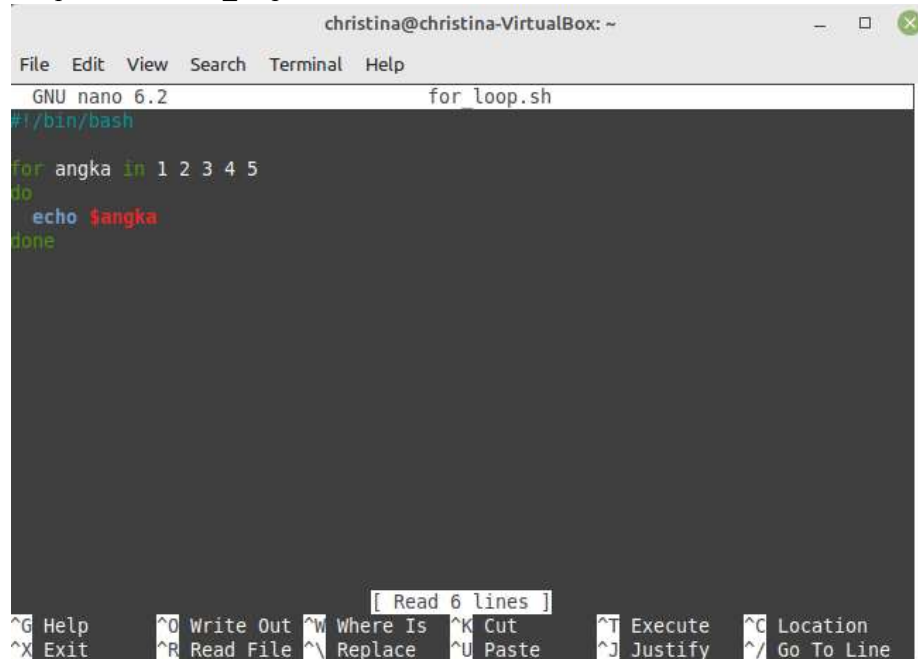
Ketika script bash while\_loop.sh di jalankan



```
christina@christina-VirtualBox:~$ nano while_loop.sh  
christina@christina-VirtualBox:~$ bash while_loop.sh  
0  
2  
4  
6  
8  
christina@christina-VirtualBox:~$
```

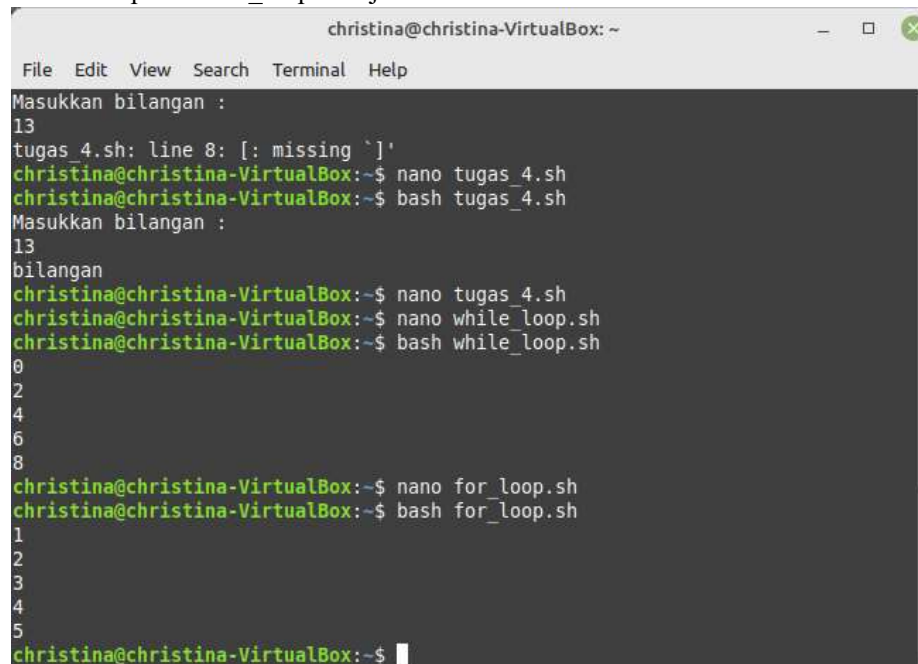
### 2. For Loop

Script bash dari for\_loop.sh



```
christina@christina-VirtualBox: ~  
File Edit View Search Terminal Help  
GNU nano 6.2 for_loop.sh  
#!/bin/bash  
  
for angka in 1 2 3 4 5  
do  
    echo $angka  
done  
  
[ Read 6 lines ]  
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location  
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line
```

Ketika script bash for\_loop.sh dijalankan



```
christina@christina-VirtualBox: ~  
File Edit View Search Terminal Help  
Masukkan bilangan :  
13  
tugas_4.sh: line 8: [: missing `']  
christina@christina-VirtualBox:~$ nano tugas_4.sh  
christina@christina-VirtualBox:~$ bash tugas_4.sh  
Masukkan bilangan :  
13  
bilangan  
christina@christina-VirtualBox:~$ nano tugas_4.sh  
christina@christina-VirtualBox:~$ nano while_loop.sh  
christina@christina-VirtualBox:~$ bash while_loop.sh  
0  
2  
4  
6  
8  
christina@christina-VirtualBox:~$ nano for_loop.sh  
christina@christina-VirtualBox:~$ bash for_loop.sh  
1  
2  
3  
4  
5  
christina@christina-VirtualBox:~$
```

### 3. Select Loop

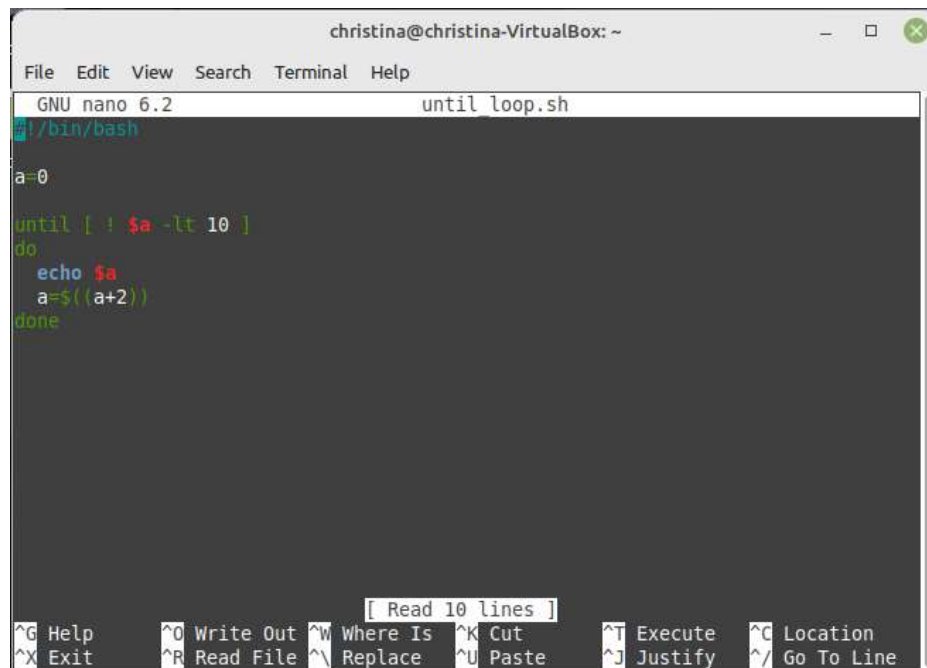
Script bash dari select\_loop.sh

```
christina@christina-VirtualBox: ~
File Edit View Search Terminal Help
GNU nano 6.2 select_loop.sh
#!/bin/bash
select minuman in teh kopi air jus susu semua tidakada
do
    case $minuman in
        teh|kopi|air|semua)
            echo "Maaf, habis"
            ;;
        jus|susu)
            echo "Tersedia"
            ;;
        tidakada)
            break
            ;;
        *) echo "Tidak ada di daftar menu"
            ;;
    esac
done
```

Ketika file `select_loop.sh` dijalankan

```
christina@christina-VirtualBox: ~
File Edit View Search Terminal Help
christina@christina-VirtualBox:~$ ls
BelajarBashDasar  Documents  Music      select_loop.sh  Videos
belajarsisop     Downloads  Pictures   Templates       while_loop.sh
Ch                for_loop2.sh Public     Tugas2Sisop
Dasar             for_loop.sh python1.py tugas_4.sh
Desktop           Hello      python3    until_loop.sh
christina@christina-VirtualBox:~$ nano select_loop.sh
christina@christina-VirtualBox:~$ bash select_loop.sh
1) teh          3) air        5) susu      7) tidakada
2) kopi        4) jus        6) semua
#? 1
Maaf, habis
#? 2
Maaf, habis
#? 7
christina@christina-VirtualBox:~$
```

4. Until Loop  
Script bash dari `until_loop.sh`



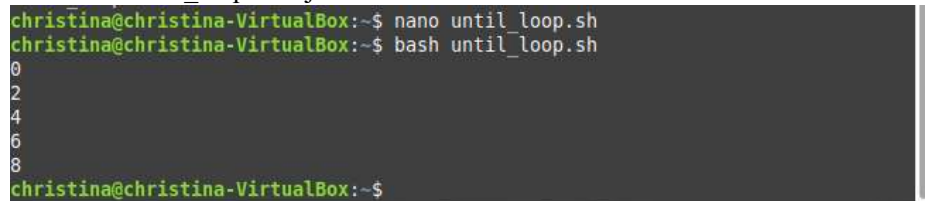
```
christina@christina-VirtualBox: ~
File Edit View Search Terminal Help
GNU nano 6.2 until_loop.sh
#!/bin/bash

a=0

until [ ! $a -lt 10 ]
do
    echo $a
    a=$((a+2))
done

[ Read 10 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^_ Replace   ^U Paste     ^J Justify   ^/ Go To Line
```

Ketika file `until_loop.sh` dijalankan



```
christina@christina-VirtualBox:~$ nano until_loop.sh
christina@christina-VirtualBox:~$ bash until_loop.sh
0
2
4
6
8
christina@christina-VirtualBox:~$
```

#### SOAL LATIHAN

- Buatlah program perulangan yang menerapkan beberapa konsep pemrograman bash seperti diatas dengan ketentuan sbb
  1. User menginputkan acuan bilangan
  2. Mencetak bilangan positif kelipatan ganjil 3 5 7 9 dst dari bilangan acuan

```
christina@christina-VirtualBox: ~
File Edit View Search Terminal Help
GNU nano 6.2 tugas_4.sh
#!/bin/bash

echo -n "Masukkan bilangan : "
read x

i=1;
until [ $i -gt $x ];
do
echo -n $i " ";
let i=$i+2
done

[ Read 11 lines ]
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line
```

Pertama buat inputan untuk memasukkan angka. Kemudian lakukan looping dengan perintah until. Jadi Ketika i lebih besar dari x, maka I akan di tambahkan dengan 2. Untuk soal diatas i nya adalah 1, sehingga ketika dimasukkan bilangan x yg lebih besar dari 1 misalnya 13 maka 1 tersebut akan ditambahkan terus hingga ke 13.

```
christina@christina-VirtualBox:~$ nano tugas_4.sh
christina@christina-VirtualBox:~$ bash tugas_4.sh
Masukkan bilangan :3
1 3 christina@christina-VirtualBox:~$ bash tugas_4.sh
Masukkan bilangan :13
1 3 5 7 9 11 13 christina@christina-VirtualBox:~$ bash tugas_4.sh
Masukkan bilangan :15
1 3 5 7 9 11 13 15 christina@christina-VirtualBox:~$ bash tugas_4.sh
Masukkan bilangan :14
1 3 5 7 9 11 13 christina@christina-VirtualBox:~$ nano tugas_4.sh
christina@christina-VirtualBox:~$ bash tugas_4.sh
Masukkan bilangan :14
1 3 5 7 9 11 13 christina@christina-VirtualBox:~$ bash tugas_4.sh
Masukkan bilangan :20
1 3 5 7 9 11 13 15 17 19 christina@christina-VirtualBox:~$
```