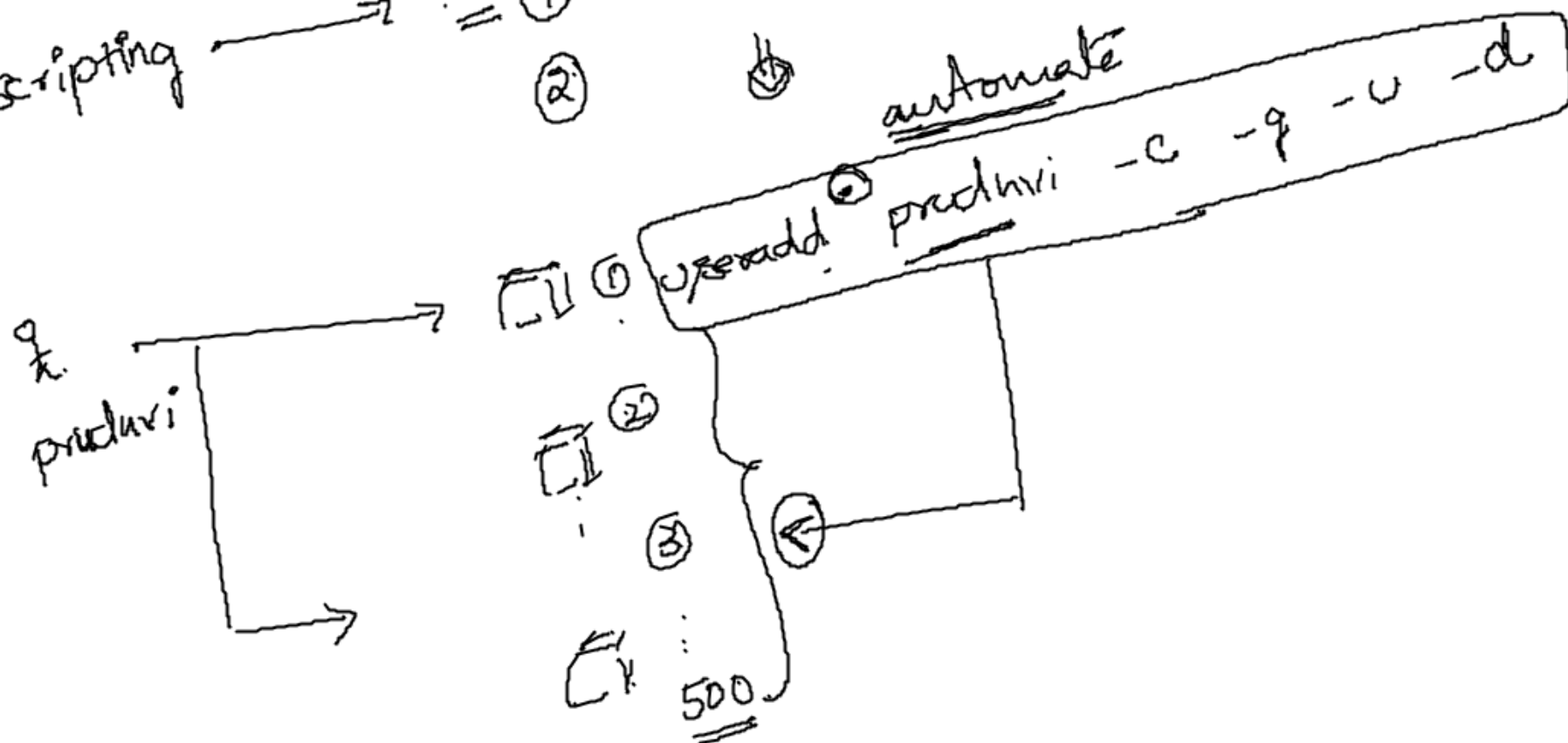
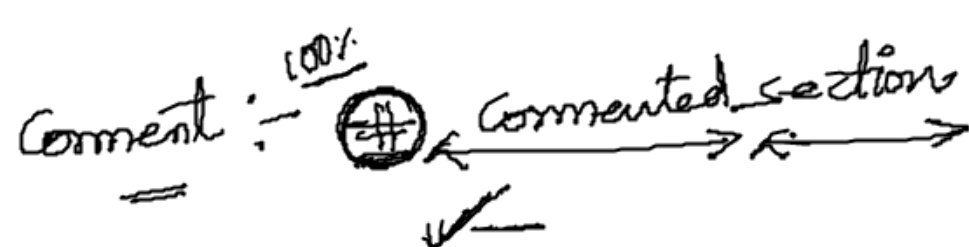


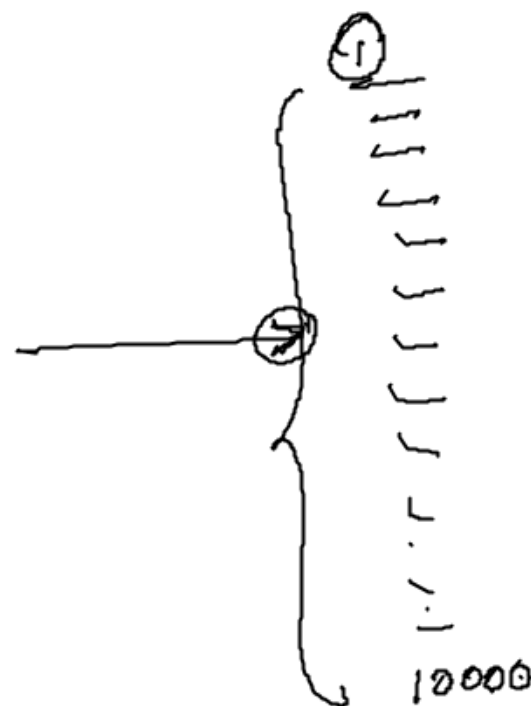
①  
shell scripting

scripting → ?? ① automate  
②



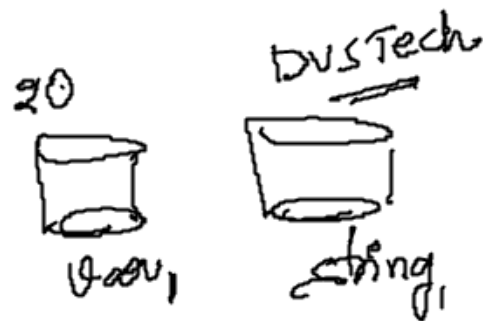


month



Variablesdeclaration

Anyname  $\Rightarrow$   $\begin{cases} \text{var}_1 = 20 \\ \text{string}_1 = \text{"DVS Tech"} \end{cases}$

Accessing value

o/p

$\begin{cases} \$\text{var}_1 \Rightarrow 20 \\ \$\text{string}_1 \Rightarrow \text{DVS Tech} \end{cases}$

printing values

echo \$var<sub>1</sub>  
echo \$string<sub>1</sub>

output



" var<sub>1</sub> value is ~~\$var<sub>1</sub>~~ " (10)

" string<sub>1</sub> value is Dvs Tech " ~~\$string<sub>1</sub>~~

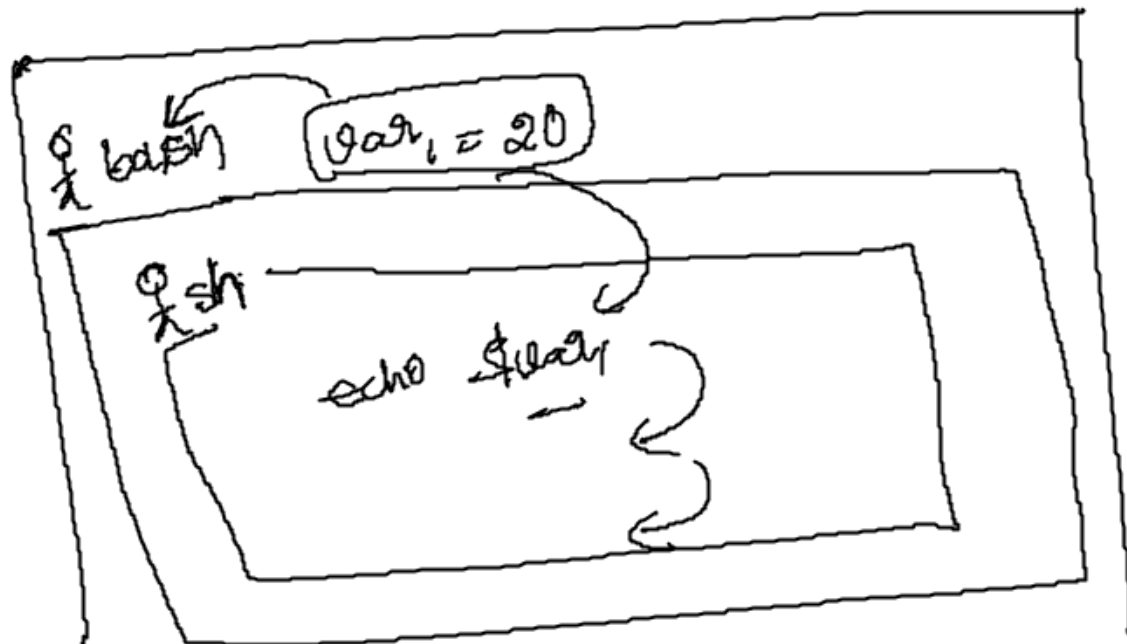
var<sub>1</sub> = 10

string<sub>1</sub> = "Dvs Tech"

Linux

default variables

# export var1=20



permanently defining a variable

~ ⇒ Home directory

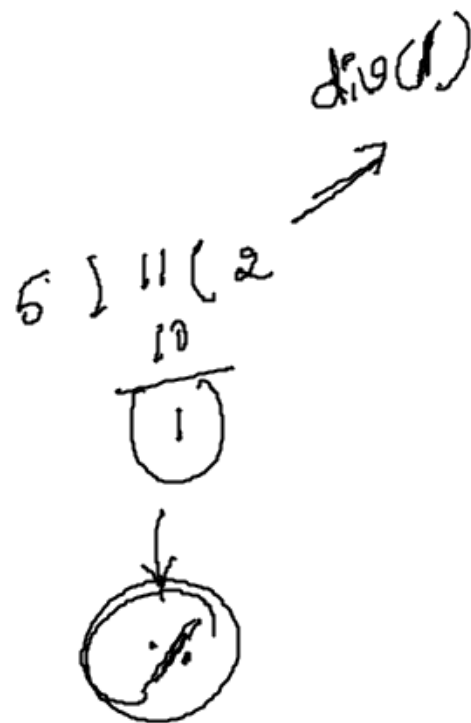
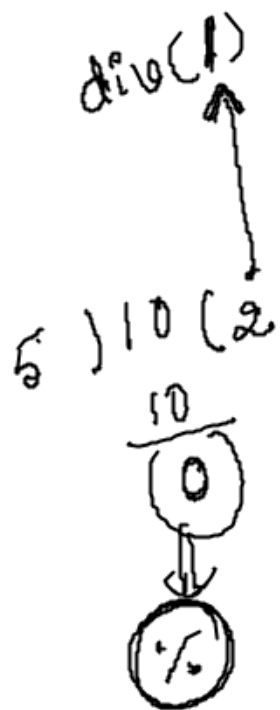
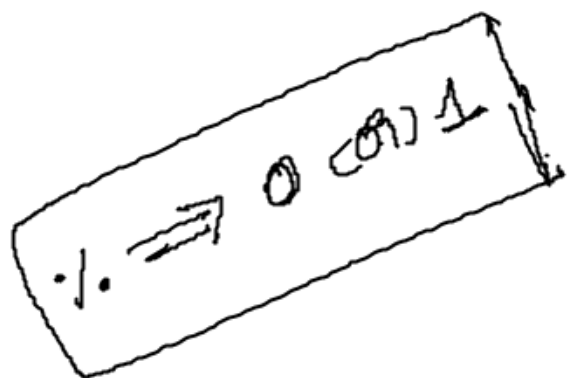
{  
  /etc/profile  
  ~/.bashrc  
  ~/.bash\_profile  
}

---

operators

{	Arithmetic	→	⊕	+	,	/	,	*	,	%	,	-
	Logical	→		&&	,		,	!				
	Boolean	→		true	,	false						
	Relational	→		<	,	>	,	≤	,	≥	,	!=

⊕    %





$\&\&$ ,  $||$ ,  $!$

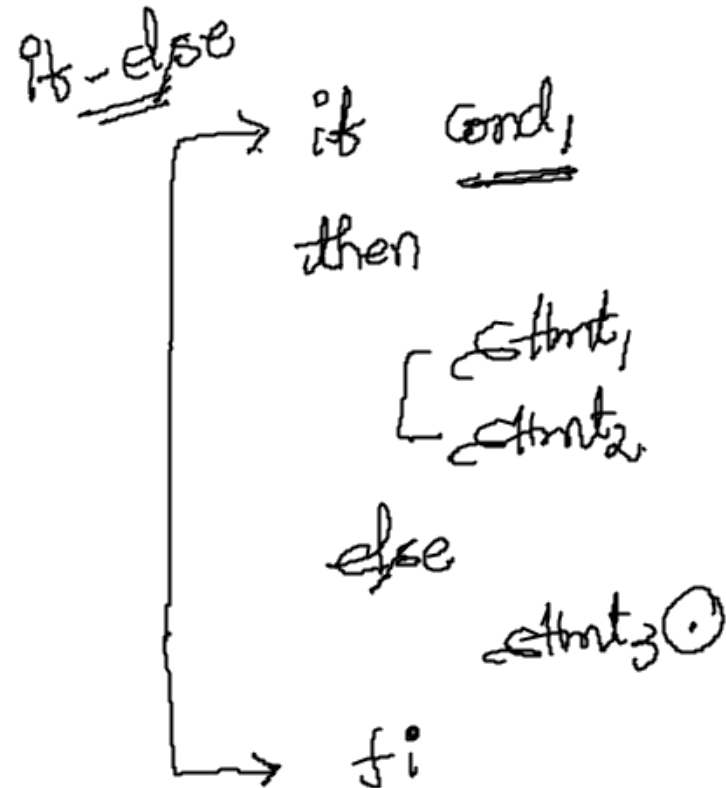
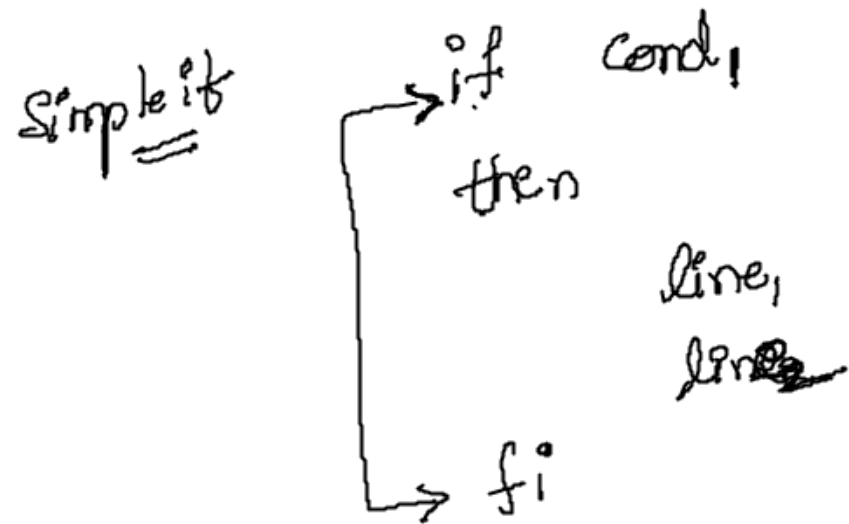
$(\text{Cond}_1 \&\& \text{Cond}_2)$   
 $(\text{Cond}_1 || \text{Cond}_2)$

$! \text{Cond}_1$

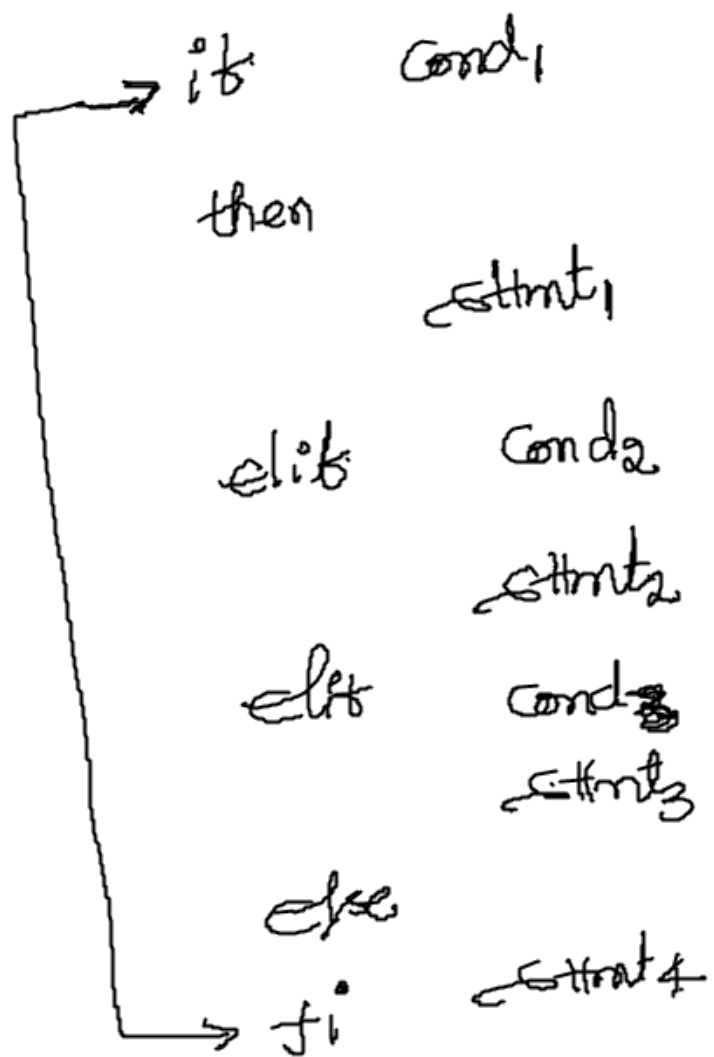
$\text{Cond}_1$	$\text{Cond}_2$	$\&\&$	$  $	$!$
T	T	T	T	F
T	F	F	T	F
F	T	F	T	$\textcircled{T}$
$\textcircled{F}$	F	F	F	T

~~$\textcircled{7}$~~

Conditions  $\Rightarrow$  if this is ~~cond~~ then do this one



nested if



```
#!/bin/bash
```

```
read -p "enter a value:" a
```

```
read -p "enter b value:" b
```

```
if a > b
```

```
then
```

```
echo "a is big,$a"
```

```
else
```

```
echo "b is big,$b"
```

```
fi
```

→ No need to worry about indentations

10



a

20



\$a

\$b

if (( a > b ))

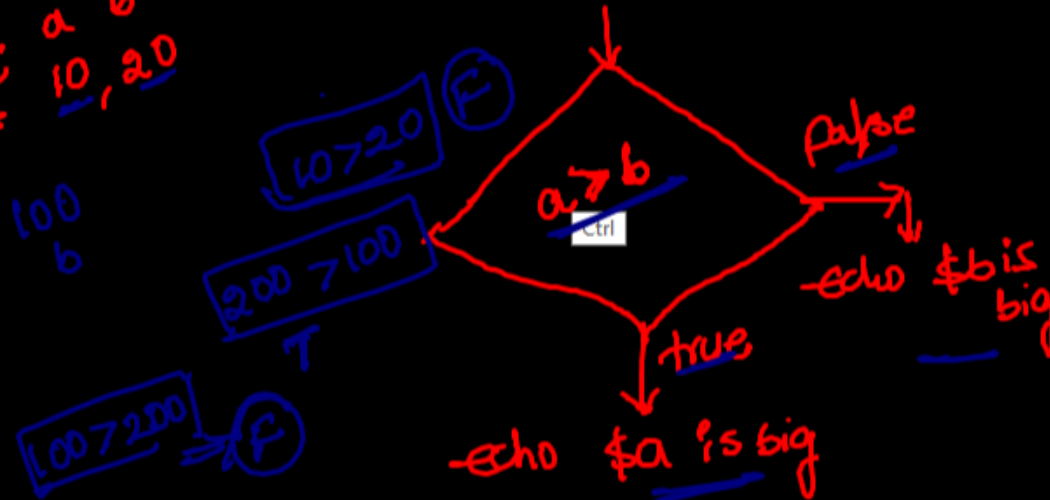
```
[root@shellscripting day1]# cat myif.sh
#!/bin/bash

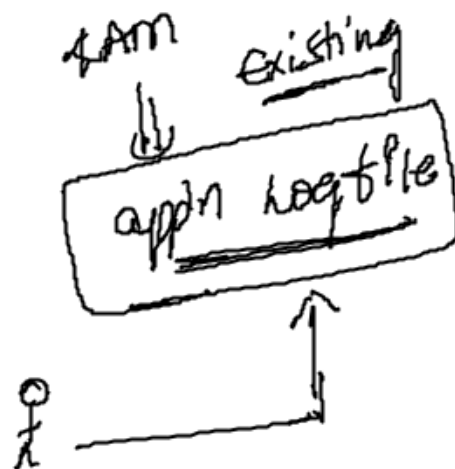
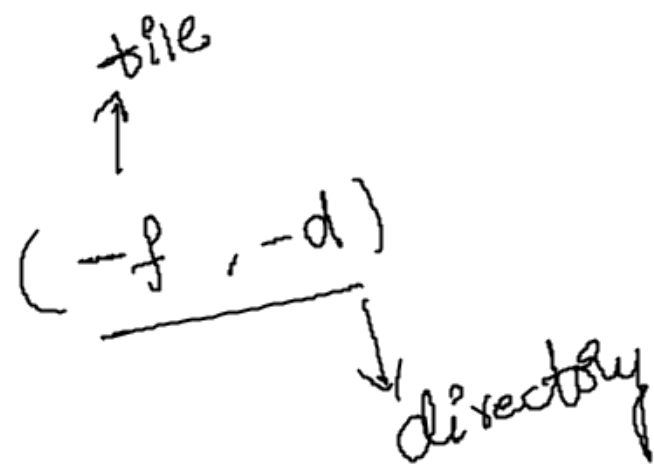
read -p "enter a value:" a
read -p "enter b value:" b

if (( a > b ))
then
echo "a is big,$a"
else
echo "b is big,$b"
fi

[root@shellscripting day1]# bash myfi
bash: myfi: No such file or directory
[root@shellscripting day1]# bash myif.sh
enter a value:100
enter b value:200
b is big,200
[root@shellscripting day1]#
```

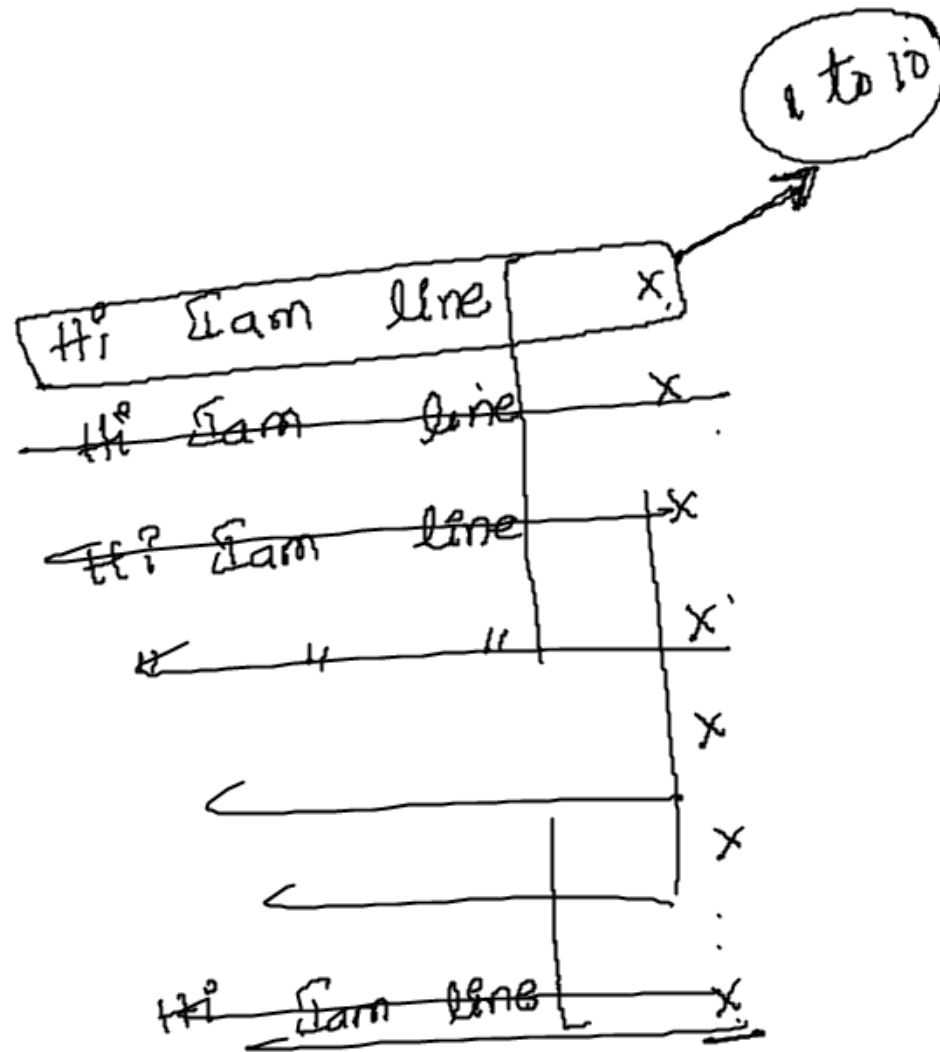
1st a b  
10, 20  
2nd 200 100  
a b





loops : dp

Hi Sam line x[1-10]



for, while  
Ⓢ

Ⓢ do while

name<sub>1</sub> 2 name<sub>3</sub> 4 name<sub>5</sub> 6

name<sub>1</sub> name<sub>2</sub> name<sub>3</sub> name<sub>4</sub> ...

1 2 3 4 5 ... Ⓢ

u16/231

Syntax for :-

for i in

(no. of elements)

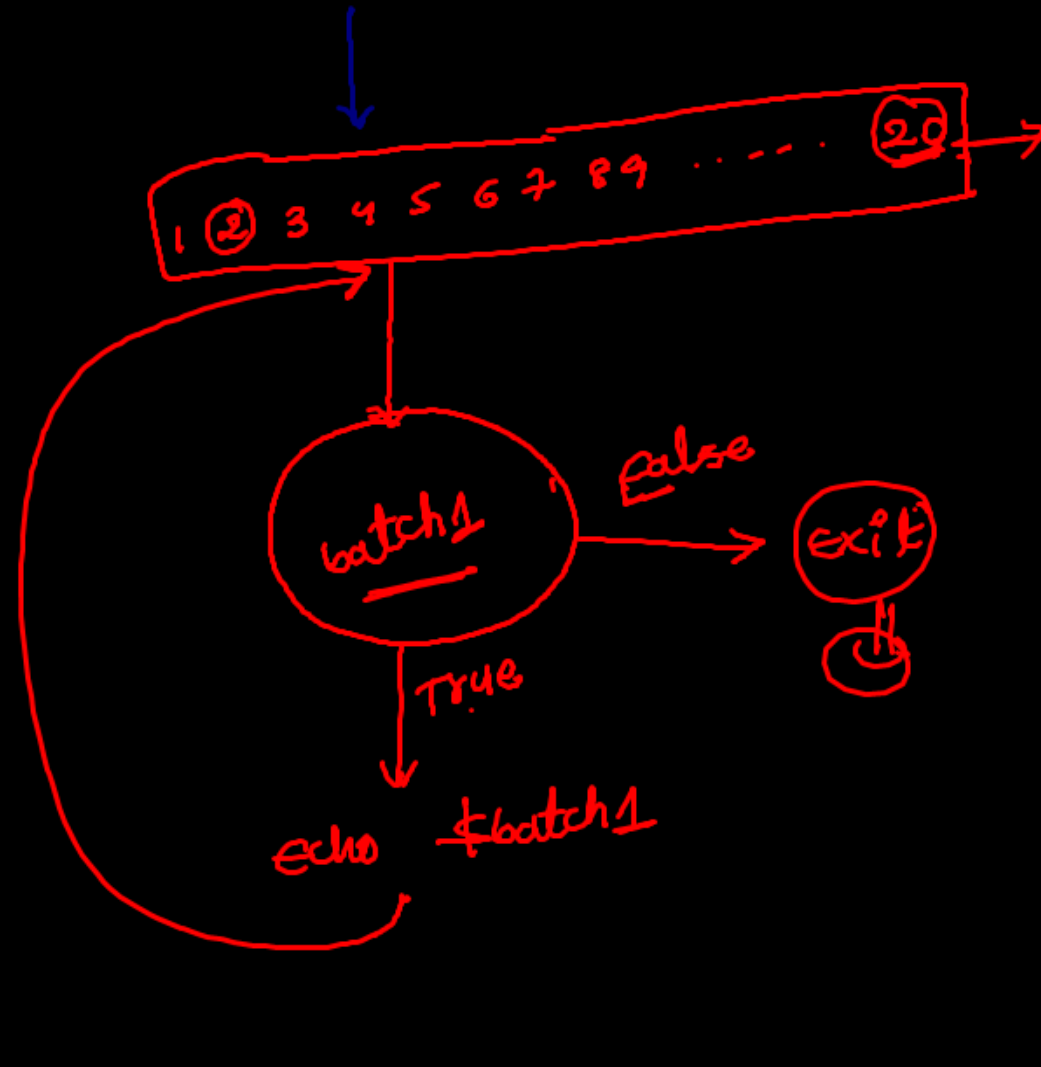
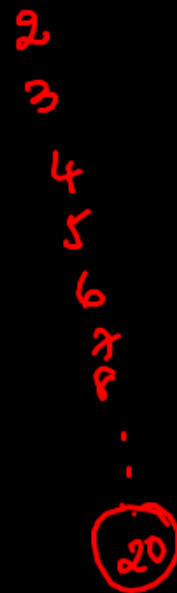
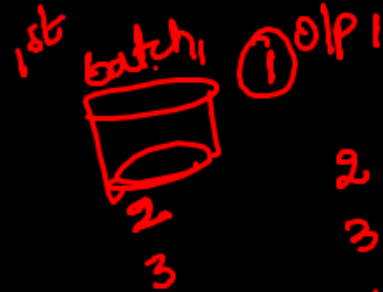
do  
Ⓢ done

stmt<sub>1</sub>  
stmt<sub>2</sub>



```
[root@shellscripting day1]# cat myfor.sh
#!/bin/bash

for batch1 in {1..20}
do
    echo "my value is $batch1"
done
[root@shellscripting day1]# bash my
bash: my: No such file or directory
[root@shellscripting day1]# bash myfor.sh
my value is 1
my value is 2
my value is 3
my value is 4
my value is 5
my value is 6
my value is 7
my value is 8
my value is 9
my value is 10
my value is 11
my value is 12
my value is 13
my value is 14
my value is 15
my value is 16
my value is 17
my value is 18
my value is 19
my value is 20
[root@shellscripting day1]#
```



1 to 10while cond<sub>1</sub>

do

stmt<sub>1</sub>  
stmt<sub>2</sub>

done

# i in 1 to 10

i = 1

while (( i ≤ 10 ))

do

echo \$i

done

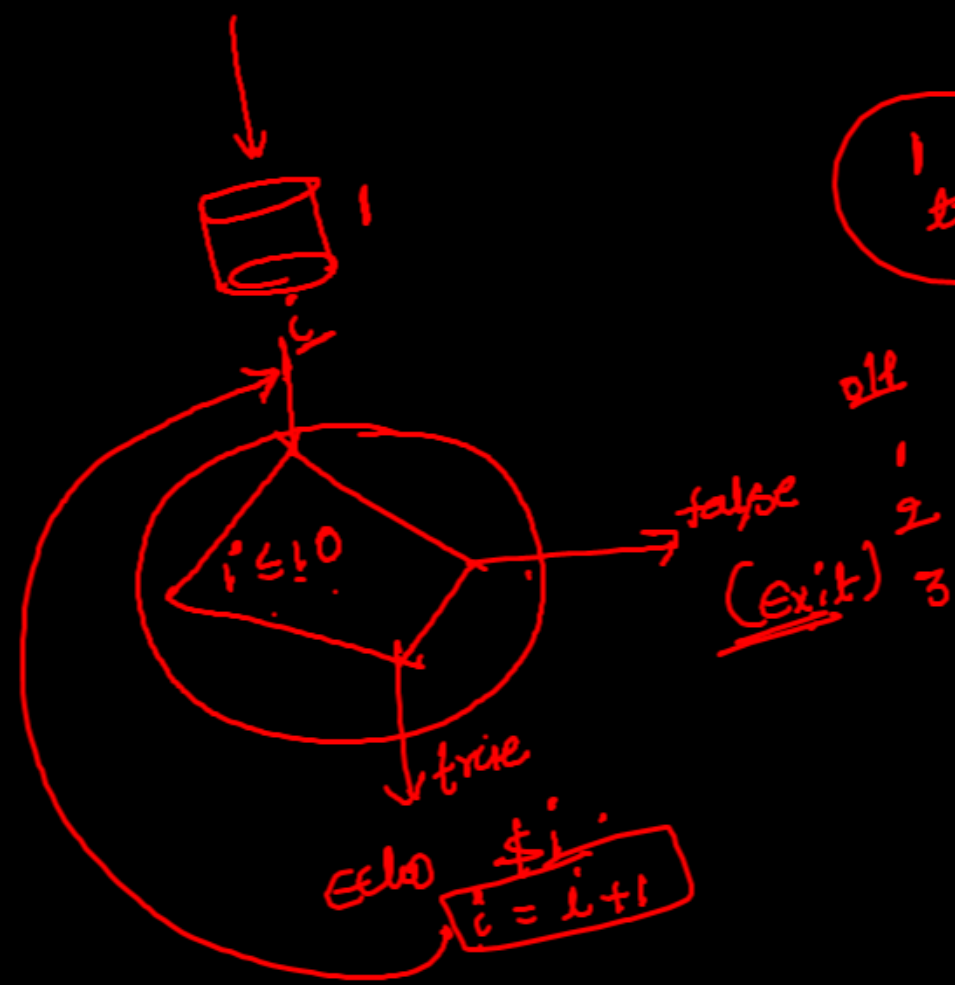
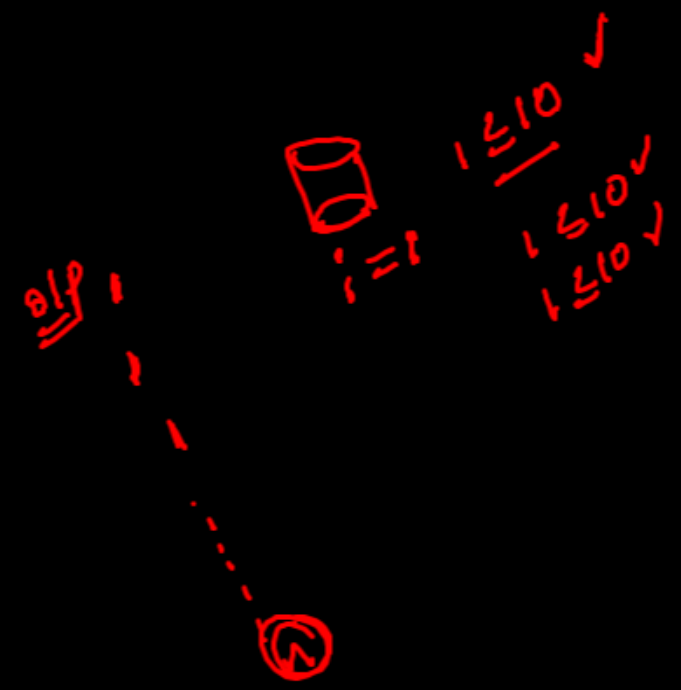


(infinite)

```
[root@shellscripting day1]# cat mywhile.sh
#!/bin/bash
i=1

while (( i <= 10 ))
do
    echo $i
done

[root@shellscripting day1]#
```



1 to 10

all

$i=1$	$1 \leq 10$
$i=2$	$2 \leq 10$
$i=3$	$3 \leq 10$
...	
10	$10 \leq 10$
11	$11 \leq 10$ (X)

[illegible]

100 Servers  $\Rightarrow$  optimal command  
at HT  
uname -a  
xyz operation

doing o/p (3)

auto app in health

{AM}

(AM)

running  $\xleftrightarrow{\text{o/p}}$  store log file

↓

⊙

[1]

o/p redirection

→  
→  
→

writing data  
appending data

---

ip redirection

```
bash: syntax error near unexpected token `serverslist'
[root@shellscripting day1]# while read servername; do echo $servername; done < serverslist
server1
server2
server3
server4
server5
[root@shellscripting day1]#
```