Usage of && operator

Example1:

This is the scenario where both the conditions should be true because of && operator

```
#!/btn/bash

read -p "enter your age" age
read -p "do you have adhaar" card

if [[ Sage -ge 18 ]] && [[ Scard == "yes" ]]
then
echo "you can apply for passport"
else
echo "you can't apply"
7
```

```
root@ubuntu1:/home/simran/folder18/folder1# vim and.sh
root@ubuntu1:/home/simran/folder18/folder1# chmod +x and.sh
root@ubuntu1:/home/simran/folder18/folder1# ./and.sh
enter your age19
do you have adhaaryes
you can apply for passport
root@ubuntu1:/home/simran/folder18/folder1# ./and.sh
enter your age17
do you have adhaaryes
you can't apply
root@ubuntu1:/home/simran/folder18/folder1# vim and.sh
root@ubuntu1:/home/simran/folder18/folder1#
```

Example2:

usage of && and ||(or) operator

```
#!/bin/bash

mkdir new && echo "A directory got created" || echo "please try again"

cp /home/simran/folder18/if.sh /home/simran/folder18/folder1 && echo "successfully copied script file" || echo "falled to copy"

cat if.sh && echo " file found" || echo "not found"

root@ubuntu1:/home/simran/folder18/folder1# ./andor.sh
A directory got created
successfully copied script file
#1/bin/bash

read -p "please enter your marks" marks
if [[ Smarks -gt 17 ]]
then

echo "you have passed the exam"
else
echo " you are FAIL"

file found
root@ubuntu1:/home/simran/folder18/folder1#
```

For Loop:

Here we need loops whenever we want to run certain commands in repeatable manner

Example1: A script to print range of values:

```
root@ubuntu1:/home/simran/folder18/folder1# vim for.sh root@ubuntu1:/home/simran/folder18/folder1# chmod +x for.sh root@ubuntu1:/home/simran/folder18/folder1# ./for.sh the value is 10 the value is 20 the value is 30 the value is 40 the value is 50 the value is 60 the value is 60 the value is 70 the value is 70 the value is 80 the value is 90 the value is 90 the value is 90 root@ubuntu1:/home/simran/folder18/folder1#
```

Another format:

Example2: Loop through files in a directory

This example demonstrates how to loop through files in the current directory with a .sh extension. The loop iterates over each matching file, and the filename is stored in the variable \$file, which is then used in the loop body.

```
root@ubuntu1:/home/simran/folder18/folder1# ./for.sh
the file is andor.sh
the file is and.sh
the file is for.sh
the file is if.sh
```

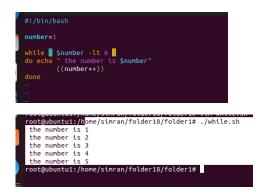
Example3: Retrieving all values of array

```
the element is 10
root@ubuntu1:/home/simran/folder18/folder1# cat for.sh
#!/bin/bash

list=(1 2 3 4 5 hello "hello there" 8 9 10)
length=${#list[*]}
for ((1=0:i<$length;i++))
do
        echo "the element is ${list[$i]}"
done
root@ubuntu1:/home/simran/folder18/folder1#

root@ubuntu1:/home/simran/folder18/folder1# vim ror.sh
root@ubuntu1:/home/simran/folder18/folder1# ./for.sh
the element is 1
the element is 2
the element is 3
the element is 4
the element is 4
the element is 5
the element is hello
the element is hello
the element is 8
the element is 9
the element is 9
the element is 9
the element is 10
root@ubuntu1:/home/simran/folder18/folder1# cat for.sh
```

While Loop:



Example: Making infinite script

After every 3 seconds it will print the text "hello"

```
root@ubuntu1:/home/simran/folder18/folder1# vim infi.sh
root@ubuntu1:/home/simran/folder18/folder1# chmod +x infi.sh
root@ubuntu1:/home/simran/folder18/folder1# ./infi.sh
Hello
Hello
```

Exit Status

In Bash scripts, the exit status of a command is stored in the special variable \$?. A common convention is to exit with a status of 0 for success and a non-zero status for failure.

Example:

Cronjob Command:

To automate the task on Linux we use cronjob command

Crontab -e to edit and make a new job

Crontab -I to show all current jobs

Format:

Minute hour day month dayofWeek

Service cron start

Service cron status

To list existing cron jobs:

Crontab -I

To create a cronjob

Crontab -e

Then choose the editor:

Vim/nano

```
root@ubuntu1:/home/simran/folder18/folder1# crontab -e no crontab for root - using an empty one

Select an editor. To change later, run 'select-editor'.

1. /bin/nam.
2. /usr/bin/vim.basic
3. /usr/bin/vim.tiny
4. /bin/ed

Choose 1-4 [1]: 2
crontab: installing new crontab

* * * * * echo "newfile" >> /home/simran/folder18/file111
root@ubuntu1:/home/simran/folder18#
```

When we have used ***** it says after every minute this text will be added in this file "file111"

