

The topics:

- for Loop
- Nesting of for Loop
- while loop

For Loop :

Syntax:

for { variable name } in { list }

Do

*execute one for each item in the list until the list is not finished
(And repeat all statement between do and done)*

done

```
$ vi testfor
for NUMBER in 1 2 3 4 5
do
echo "Welcome $NUMBER times"
done
```

```
$ vi for2
LIMIT = 10
for (( i = 1 ; i <= LIMIT; i++ ))
do
echo "Welcome $i times"
done
```

```
$ vi nestedfor
for (( i = 1; i <= 5; i++ ))   ### Outer for loop ###
do
for (( j = 1 ; j <= 5; j++ )) ### Inner for loop ###
do
echo -n "$i "
done
echo "" ##### print the new line ###
done
```

While loop:

Syntax:

while [condition]

do

command1

command2

command3

..

done

```
$ vi mtable
#Script to test while statement -
# it display multiplication table for any number
if [ $# -eq 0 ]
then
    echo "Error - Number missing form command line argument"
    exit 1
fi
n=$1
i=1
while [ $i -le 10 ]
do
    echo "$n * $i = `expr $i \* $n`"
    i=`expr $i + 1`
done
```

```
$ chmod 755 mtable
```

```
$ ./ mtable 8
```

See :

<http://www.freeos.com/guides/oldlsst/getting.htm>

<http://www.freeos.com/guides/lsst/ch03sec06.html>