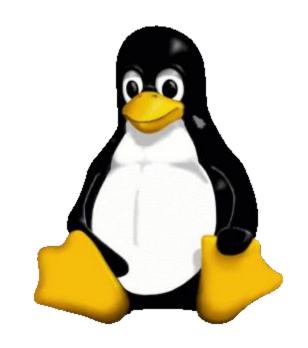
GNU/Linux

Scripting II

Lesson 10

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If ... then ... else

```
#!/bin/bash
count=42
if [$count -eq 42]
then
echo "42 is correct."
elif [$count -gt 42]
then
echo "Too much."
else
echo "Not enough."
fi
```

For Loop

```
for i in 124
do
echo $i
done
#!/bin/ksh
for counter in `seq 1 20`
do
echo counting from 1 to 20, now at $counter
sleep 1
done
```

For Loop (continue)

```
#!/bin/bash
for counter in {1..20}
do
echo counting from 1 to 20, now at $counter
sleep 1
done
```

While Loop

```
i=100
while [$i -ge 0]
do
echo Counting down, from 100 to 0 now at $i
let i--
done
```

Endless loop

```
#!/bin/ksh
# endless loop
while:
do
echo hello
sleep 1
done
```

until Loop

```
let i=100;
until [$i -le 0]
do
echo Counting down, from 100 to 1 now at $i
let i--
done
```

\$1, \$2, \$3, ...

Bash shell has parameters as \$n.

```
am@am-UBOX ~ $ ./testparam Amir England 22
the first param Amir
the second param England
the third param 22
all the arguments Amir England 22
count argument 3
am@am-UBOX ~ $
```

A remainder

```
am-UBOX:~> bash
bash: setenv: command not found
am@am-UBOX ~ $ cat >>testparam <<end
> #! /bin/bash
> echo the first param $1
> echo the second param $2
> echo the third param $3
> echo all the arguments $*
> echo count argument $#
> end
am@am-UBOX ~ $ chmod +x testparam
am@am-UBOX ~ $ cat testparam
#! /bin/bash
echo the first param
echo the second param
echo the third param
echo all the arguments
echo count argument 0
am@am-UBOX ~ $
```

\$0 : name of the script

```
echo this file is: 🐠
echo You have to give at least one parameter.
exit l
                      am@am-UBOX ~ $ ./shiftparam
echo You gave me $1
                      this file is: ./shiftparam
                      You have to give at least one parameter.
                      am@am-UBOX ~ $ ./shiftparam Amir England 22
                      this file is: ./shiftparam
                      You gave me Amir
                      You gave me England
                      You gave me 22
                      am@am-UBOX ~ $
```

Write a script that uses a for loop to count from 3 to 7.

Write a script that uses a for loop to count from 1 to 17000.

Write a script that uses a while loop to count from 3 to 7.

Write a script that uses an until loop to count down from 8 to 4.

Write a script that counts the number of files ending in .txt in the current directory.

Wrap an if statement around the script so it is also correct when there are zero files ending in .txt.