

# GNU/Linux

## Scripting II

### Lesson 10 – Answers to Exercises

By Dr.  
Amir



# Exercises 1

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

```
#!/bin/bash

for i in 3 4 5 6 7
do
    echo Counting from 3 to 7, now at $i
done
```

## Exercises 2

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

```
#!/bin/bash

for i in `seq 1 17000`
do
    echo Counting from 1 to 17000, now at $i
done
```

## Exercises 3

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

```
#!/bin/bash

i=3
while [ $i -le 7 ]
do
    echo Counting from 3 to 7, now at $i
    let i=i+1
done
```

# Exercises 4

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

```
#!/bin/bash

i=8
until [ $i -lt 4 ]
do
    echo Counting down from 8 to 4, now at $i
    let i=i-1
done
```

## Exercises 5

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

```
#!/bin/bash

let i=0
for file in *.txt
do
    let i++
done
echo "There are $i files ending in .txt"
```

# Exercises 6

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

```
#!/bin/bash

ls *.txt > /dev/null 2>&1
if [ $? -ne 0 ]
then echo "There are 0 files ending in .txt"
else
  let i=0
  for file in *.txt
  do
    let i++
  done
  echo "There are $i files ending in .txt"
fi
```