

UT 12. INTRODUCTION TO SHELL SCRIPTING Activities

Computer Systems
CFGS DAW / DAM

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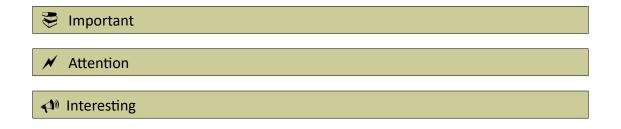
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Nomenclature

Throughout this unit different symbols will be used to distinguish important elements within the content. These symbols are:



UT 12. Introduction to shell scripting

ACTIVITIES

In these activities, you will be writing code for the bash shell. If you don't have it installed in your system you will need to use a Docker container or a virtual machine.

Take in account that there are different solutions for the exercises.

1. EXERCISE 1

```
#! /usr/bin/env bash

password=""
while [[ $password != "password123" ]] ; do
    read -p "Enter password: " password
done
echo "Access granted!"
```

2. Exercise 2

```
#! /usr/bin/env bash

if [ $# -ne 2 ]; then
    echo "Error: Expected two arguments."
    exit 1

fi

if [ $1 -gt $2 ]; then
    echo "Error: First argument must be less or equal to second argument."
    exit 1

fi

for ((i=$1; i<=$2; i++)); do
    echo $i
done</pre>
```

3. EXERCISE 3

```
#! /usr/bin/env bash
sum=0
while true; do
  read -p "Enter a number: " num
  if [ $num -lt 0 ]; then
      break
  fi
  sum=$((sum + num))
done
echo "The sum is: $sum"
```

4. Exercise 4

```
#! /usr/bin/env bash
height=$1
for ((i=1; i<=height; i++)); do
    for ((j=1; j<=i; j++)); do
        echo -n "*"
    done
    echo ""
done</pre>
```

5. EXERCISE 5