

OPERATING SYSTEM 1

Lecture 8

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array in shell script

Program

```
#!/bin/bash

array[0]=35
array[1]=4
array[32]=Ahmad
array["asd"]=qwe

echo ${array[1]}
echo ${array[@]}
echo "The Size ${#array[@]}"
```

Output

```
./example.bash
4
qwe 4 Ahmad
The Size 3
```

array in shell script

Program

```
#!/bin/bash
array[0]=35
array[1]=4
array[32]=Ahmad
array["asd"]=qwe

for item in ${array[@]}
do
    echo $item
done

unset array
echo ${#array[@]}
```

Output

```
./example.bash
Qwe
4
Ahmad
0
```

EXERCISE

Write a bash script that returns the sum, max and average of an array

Basic Linux Commands

- \$?
 - check if command success or fail
- **Examples:**
 - echo qwe
 - echo \$? Print zero (success)
 - cho qwe
 - echo \$? Print non zero number (fail)

Basic Linux Commands

- ping
 - send ICMP ECHO_REQUEST to network hosts
 - **Syntac:** ping [option] destination
 - -c: count of requests to send
 - **Examples:**
 - ping www.google.com
 - ping -c 3 www.google.com

Basic Linux Commands

- Redirection:
 1. To redirects the command **standard** output messages to /dev/null where it is ignored by the shell:
 - `command > /dev/null`
 2. To redirects the command **error** output messages to /dev/null where it is ignored by the shell:
 - `command 2> /dev/null`
 3. To redirects both **standard and error** output messages to /dev/null where it is ignored by the shell:
 - `command &> /dev/null`

HW

Make a simple program that checks the internet connection all the time (up or down). And it must store in a file all the time periods that the connection was down