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Flow Control (if...elif...else) and Command Substitution

Loops in Bash: for, while

Functions and Menus in Bash

Setting Up the Environment for the Hands-On Projects

Running a Linux Server in the Cloud (7:26)

Securing SSH with Key Authentication (5:08)

DigitalOcean Referral Link, Ubuntu and CentOS Download Links

Flow Control (if...elif...else) and Command Substitution

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How to solve these challenges:

- To be consistent with the filenames and paths run the commands on Ubuntu
- Write your solution **in a terminal** and **test it**.
- If your solution is not correct, then try to understand the error messages, watch the video again, rewrite the solution, and test it again. Repeat this step until you get the correct solution.
- Save** the solution in a file for future reference or recap.

Challenge #1

- Create a script that takes an argument and tests if it's a file or not.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #2

- Consider the [solution from the previous challenge](#). Change it so that it tests if the script is run with exactly one argument.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #3

- Create a script that clears the contents of a text file which is the script's argument.
- Test that the argument is a file.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #4

- Create a script that drops the packets from an IP address given by the user.
- Example: The command to drop the packets from 100.0.0.1 is: **iptables -I INPUT -s 100.0.0.1 -j DROP**
- Run the script as root and test the connection to different IP addresses.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #5

- Change the [solution from the previous challenge](#) so that the IP address is given as the first argument of the script.
- Test that the script is run with exactly one argument.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #6

- Develop a script that appends to a file the currently logged-in users and the current date and time.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #7

- Create a script that prompts the user for a character.
- If the character is **Y**, display **"YES"**. If the character is **N**, display **"NO"**. Use double quotes when displaying YES and NO. If the user enters any other character exit the script.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #8

- Change the previous script this way: If the character is **Y** or **y** display "YES". If the character is **N** or **n** display "NO". If the user enters any other character exit the script. Use the OR operator (**||**) for testing the lowercase **y** and **n**.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #9

- Create a script that takes exactly two arguments. The first argument is a shell command and the second argument is a string. The script will check if the string belongs to the output of the command.

Example: `./search_in_output.sh "ifconfig -a" "flags"` will say if the string **flags** belongs to the output of **ifconfig -a**

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).