# OPS102 NCC/ZBB Lab 7 – Week 9
# Bash Scripting Continued

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## Introduction

This lab is based on what we learned in week 9.

You may want to refer to the course notes in ops102_9_1.pdf and ops102_9_2.pdf.

## Activity 1: Create and Run A Bash Script That Iterates

In this activity, you will create and run a bash script that iterates over its command line arguments. You will do this on matrix, so you will need to remember how to edit and save a text file on matrix (using **"nano"** or **"vim"**).

Perform the following steps:

1. Login to matrix via ssh.

2. Create a directory called **"lab7"**.

3. Change to your **"lab7"** directory.

4. Use your preferred text editor to create a bash shell script in that directory called **`"myargs"`**.

   - Your script should loop over each argument provided on the command line.
   - Each time through the loop, run the "touch" command using the current argument provided on the command line.
   - For example, if you run your script with the arguments **`one`** and **`two`**, your script should run the commands **`touch one`** and **`touch two`** creating (or updating the time on) two separate files – one file for each command line argument given to your script.
   - Save your script and exit the editor.

5. Set the permissions on your file **`"myscript"`** so that you will be able to run it as a command.

6. Start the labtrack command: **`/home/john.sellens/tools/labtrack`**

7. Run the command: **`pwd`**

8. Run the command: **`cat myargs`**

9. Run the command: **`./myargs filea fileb filec`**

10. Run the command: **`ls -l`**

11. Exit out of labtrack: Run the command: **`exit`**

# Activity 2: An Interactive Bash Script

In this activity, you will create a new script that prompts the user for their age, and tells them whether or not they are old enough to drive.

1. In your **`"lab7"`** directory, create a new bash shell script called **`"drive"`** that

   - Prompts the user to enter their age in years, and saves the user's response in the variable **`"age"`**.
   - If the user did not provide a response (i.e. they gave an empty string), echo a suitable message, and exits with a "not ok" status.

- If the user's age is greater than or equal to 16, echo the message "You may drive", otherwise echo the message "You may not drive for X years", where X is the number of years until they turn 16.
- Exits at the end of the script with an "ok" status.

2. Save your file, exit the editor, and make your sure your **"numbers"** script is executable.

3. Start the labtrack command: **/home/john.sellens/tools/labtrack**

4. Run the command: **cat drive**

5. Run your **"drive"** bash script as a command, and answer the question.

6. Exit out of labtrack: Run the command: **exit**