



Scripting Languages: Workshop 4

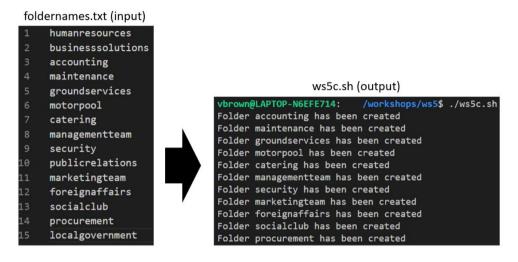
- To complete the tasks below, you will need a copy of the following files to your current working directory:
 - o foldernames.txt
 - o staff sales.csv
- Ensure that all of the scripts you write are fully commented to clearly explain their functionality at every step

Task 1

- 1. Write a script named ws5a.sh that prompts the user to enter a *three-digit number code* that is greater than or equal to *110* and less than or equal to 150. Ensure that:
 - a. Only a valid integer that meets the above-defined rules is accepted
 - b. Integers that do not meet the above-defined rules; strings; nulls are rejected
- 2. If the validation fails, the user is to be told that the input is invalid and returned to the prompt to try again
- 3. This process is to continue until a valid input is made, at which point the user is to be given a message that they have provided a valid input
- 4. Use a while loop for this task
- 5. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5a.sh script again or ask your tutor for assistance

Task 2

- 1. Write a script named ws5b.sh that populates an array named newfolders with the folder names listed in the file named foldernames.txt and then only creates those folders for which the folder names contained within the newfolders array do not exceed 14 characters in length
- 2. Use a *C-Style* Loop for this task
- 3. You do **not** need to actually create the folders on your system, just print a message to this effect (see image below)
- 4. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5b.sh script again or ask your tutor for assistance



Task 3

Write a script named ws5c.sh calculates the number of sales made by a specified staff member and the total of those sales. The required information is stored within the file named staff_sales.csv.

```
vbrown@LAPTOP-4EJP6J7N:~/scrlang/workshops/ws5$ ./ws5c.sh [awillis] [dtroy] [grogers] [ibraun] [kmitnick] [mpeters] [psellers] [sellis] Please enter a username from the list above: awillis The staff member [awillis] has made [4] sales for a total of [$4291.35]
```

- 1. Your script should meet the following criteria:
 - a. Read in the required information from staff sales.csv on-the-fly, i.e. no hard-coding
 - b. Present user with a unique list of names from the file to make input options clear
 - c. Validate user input to ensure selected staff member exists within the staff_sales.csv file
 - d. Count all the sales made by the selected staff member
 - e. Calculate the total sales amount for the selected staff member
 - f. Report results to screen as per the screenshot above
- 2. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5c.sh script again or ask your tutor for assistance