



# Scripting Languages: Workshop 5

- To complete these tasks you will need to place the following two (2) files into your current working directory:
  - o sampledata.txt
  - o salesdata.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 outputs to the terminal a count of the lines in sampledata.txt that start with the uppercase string GET
- 2. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the fws5a.sh script again or ask your tutor for assistance

#### Task 2

- 1. Write a script named ws5b.sh that outputs to the terminal those lines in sampledata.txt that end with the code 573
- 2. 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

- 1. Write a script named ws5c.sh that outputs to the terminal those lines in sampledata.txt that contain the file extension jsp or py or asp or aspx
- 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

## Task 4

- 1. Write a script named ws5d.sh that outputs to the terminal a count of all the lines in sampledata.txt that contain HTTP error 404 and that also end in code 506
- 2. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5d.sh script again or ask your tutor for assistance

#### Task 5

- 1. Write a script named ws5e.sh that retrieves all lines in sampledata.txt that end in the IP address http://192.168.5.162/ and write these lines to a text file named 162attempts.txt
- 2. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5e.sh script again or ask your tutor for assistance

#### Task 6

- 1. Write a script named ws5f.sh that retrieves all lines in sampledata.txt that contain HTTP error code 404 and also end in code 506 and write these lines to a text file named 404messages.txt
- 2. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5f.sh script again or ask your tutor for assistance

### Task 7

- 1. Write a script named ws5g.sh that outputs to the terminal a count of the lines in sampledata.txt that do **not** contain a *three digit code* that *starts* with 50, i.e. 50x
- 2. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5g.sh script again or ask your tutor for assistance

#### Task 8

- 1. Write a script named ws5h.sh that checks that the input provided by the user is an integer and nothing else
- 2. Prompt the user for an integer of any length using a standard input prompt
- 3. Once the input has been provided, check that it is an integer; if it is, print to the screen a message that says Congratulations, you have enter a valid integer then exit the script, else print Sorry, the value you have entered is not a valid integer, then exit the script
- 4. Test your script by inputting both integer and non-integer values
- 5. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the ws5h.sh script again or ask your tutor for assistance

#### Task 9

- 1. Write a script named ws5i.sh that calculates the **total** sales for those products in *salesdata.csv* with a product code that **ends** in *XS* and display this to the terminal as an accurate currency value:
  - Total sales for product codes ending in XS is \$944.95
- 2. Don't bother prompting the user for the file name salesdata.csv, just assign it to a variable
- 3. Keep your script as short as possible by using the *command substitution*, *piping* and *redirection* techniques demonstrated in the lecture
- 4. **TIP**: The *tr*, *cut* and *tail* commands may prove very useful in this script, so look these up on *SS64.com* or *gnu.org* if you are not yet familiar with them