

Scripting Languages: Workshop 8

- Log into your Ubuntu Virtual Machine, and complete the tasks below
- To complete these tasks you will need a copy of the `reqfiles.txt` file, which you can use the Firefox browser in your Ubuntu Virtual Machine to download from Blackboard
- 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 `dlfiles.sh` that downloads a specified set of images files from the ECU Media gallery at <https://www.ecu.edu.au/service-centres/MACSC/gallery/gallery.php?folder=schools-2018-science-cyber> to a user-specified directory e.g. `files`, and then calculate and report upon the size of each file downloaded in KB, and then the total size of all files downloaded collectively, also in KB.
2. Get the directory name by prompting the user for it. This directory is to be created in the same working directory within which `dlfiles.sh` is run.
3. The names of the image files that need to be downloaded are contained within the provided file named `reqfiles.txt`. You are required to integrate this file into your code as part of the download process. Do not change the contents of this file. Nor may you manually enter the file names into your code. Seek to implement the highest level of abstraction you can.
4. Once the file download stage of your script is complete, ensure that all related download messaging is cleared from the screen before proceeding to the next stage of the script.
5. Then report upon the sizes of the downloaded files as shown in the image below:

```
The file DSC03472.jpg has a size of 22.59KB
The file DSC03473.jpg has a size of 22.40KB
The file DSC03483.jpg has a size of 23.53KB
The file DSC03495.jpg has a size of 18.20KB
The file DSC03496.jpg has a size of 18.15KB
The file DSC03498.jpg has a size of 18.85KB
The file DSC03499.jpg has a size of 20.93KB
The file DSC03500.jpg has a size of 22.78KB
The file DSC03501.jpg has a size of 22.79KB
The file DSC03506.jpg has a size of 20.07KB
Total size of all files downloaded to the files directory is 210.29KB
```

6. Use `wget` or `curl` in conjunction with `awk` as the primary commands you use to achieve the outcome stipulated. In addition to these, use whatever other commands you see fit as required to provide a supporting role.
7. If you encounter an error, read the error message printed to the terminal carefully and attempt to resolve the issue and run the `.sh` script again or ask your tutor for assistance

Close Down (Important)

1. Close *VS Code*
2. Close any other applications you have open on your Ubuntu Virtual Machine
3. Close the Remote Desktop connection to your Ubuntu Virtual Machine
4. Return to the Azure Labs webpage and **stop** your Ubuntu Virtual Machine by clicking the Start/Stop toggle button
5. Once your Ubuntu Virtual Machine has been stopped  , you can then sign out of your Azure Labs account