# Conclusion:

Python and the modules available to use within Python are renowned for being easy to learn particularly for non-programmers / beginners. I think this is very much down to the fact that it is considered readable. It is also aided by the vast community of users issuing advice on various platforms. During this assignment and module as a whole, I have learned that there are many ways to carry out a task using python or indeed one of its many modules. For example, while researching the use of BeautifulSoup to scrape a website several sources suggested that using “*soup.*find*('p').getText()”* (‘how to extract keyword with BeautifulSoup from a text? Code Example’ 2021) or various iterations of this, would pull out the information I was looking for but I found that this wasn’t working for what I required and I found (eventually) that “words = *soup.*find*(text = lambda text: text and the\_word in text)”*(‘How to find a specific word in a webpage and How to count it.’ 2021) was a better fit for my task and I just needed to phrase the question differently until I found the correct fit. This means a certain level of knowledge and adaptability is required as it can become frustrating.

We have been introduced to Python, PyCharm, Ubuntu Terminal, Terraform, Git and GitHub all of which I had never used before. This module has given us the basics for programming with Python and has shown us some of its many uses such as being able to write a script to pick lotto numbers to creating a little game. More relevant to my work however, it has provided me with the knowledge and confidence to create scripts to pull information from sources whether that be event logs or excel documents. We can now create an infrastructure via script. The comprehensive notes given during this module will help beyond the course and are encouraged to use them and other resources to continue our own research (‘Content’ 2021).

This course for me is about empowerment and progression. In my current role we use a third party for managed services which takes some of the pressure off for day-to-day backups, monitoring etc. Because we are primarily a Microsoft house, I would be familiar to a degree with PowerShell and its functionality but being introduced to a tool as powerful as Python is eye-opening. There is a lot to be said for understanding the benefits of available technologies particularly in relation to automation. This is certainly an aspect of Python I would like to continue with. I found that Terraform was very easy to use because it was logical and although I had never used ubuntu before I really enjoyed the terraform question using ubuntu.

References:

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How to Extract Keyword with Beautifulsoup from a Text? Code Example [online] (2021) available: https://www.codegrepper.com/code-examples/whatever/how+to+extract+keyword+with+beautifulsoup+from+a+text%3F [accessed 8 Dec 2021].

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