**ISYS2001 – Reflective Report**

**Question 4**

The activity that I found to be the most impactful within this course was web scraping. I found the concept of extracting and applying mass amounts of data from a website interesting. This was because I was able to see the practical use of it, the incredible insights that could be gained, as well as the time saved. This activity contributed to my understanding of how the programming learnt in ISYS2001 can be applied into real-world business situations. Learning skills such as web scraping can be used for marketing, to gain knowledge of sales, and much more.

**Reflective Journal**

Week 1

I went into my first week, having no idea what to expect, as I had only enrolled into the unit the day before.

I have no experience in coding, so was a bit nervous. While I found some of the work confusing, I started to believe that I was capable of learning what was being taught.

This was really great for my confidence, and belief that I can learn what's required for the unit.

I found naming variables really interesting and am excited to learn more.

I have attached the three Colab files that we worked on below.

Ollie Jamieson

Week 2

After getting a taste of programming in the first week, I was excited to learn more going into my second lab.

After going into this unit with no programming knowledge or experience, I felt like I was beginning to understand the fundamentals and was able to solidify this last week.

We worked on a file called "A taste of python", where we learnt about values, and how to store them, about variables, naming conventions, perform operations, assigning a value to a variable.   
As well as learning about programming, I also feel that I am getting comfortable using Colab and Github, which are both critical to this unit.

Overall, I am happy with the direction that I'm moving in for this unit, and am feeling more confident with the programming.

I have attached the file we worked on, "A taste of python" below.

Oliver Jamieson

Week 3

Unfortunately, I was unable to attend my class this week, so I had to watch it online. This was a unique experience for me, as I have previously never missed a class. While being helpful, watching my class online provided some challenges. This included staying focused and engaged throughout the two hours. I found it far harder to stay "switched on" when watching the class from my computer. I also found it challenging not to be able to ask questions when stuck. While not something I plan on doing again, I feel that I was still able to learn from the recorded class, and really enjoyed the learning becoming more practical in a business sense. This included using programming to calculate things such as commission, tax, pay, etc. After a couple of weeks learning about programming basics, it was really exciting to be able to learn how to apply it in business situations.

Oliver Jamieson

Week 4

This week, I had the unique challenge of balancing keep up with my units and learning material, with studying for mid-term tests and completing assignments due in a week. I found it difficult to prepare for my assignments and tests, while still learning from units such as this one. It made the week a bit disjointed, but I think that I handled it well. Despite this, I have been finding the tutorials and work more interesting each week and am enjoying learning how to apply coding knowledge. This week we were first did an exercise in calculating a sale price, including goods and service tax. I found this a bit easier to grasp and enjoyed the activity. I struggled more with the Online Judge worksheet, where we were coding to calculate the number of words in a line of text. This was quite confusing for me and felt like a big step up from work we have previously done. I feel that I'll need to spend some more time revising and practising in order to fully understand it.

Please find the Sale Price, Online Judge, input validation and speech to text worksheet attached.

Oliver Jamieson

Week 5

While I can feel my understanding of programming growing, this week's activities felt like quite a big jump. I understood a lot of the "Copy of Speech to Text" work and found the repetition from last week beneficial. Going over this work really helped my confidence in the subject.

The "Stocks Daily Return' work was quite complicated, had a lot to it, and was moved through quite fast. While I was able to keep somewhat of a grasp on what we were doing, I will need to go over it a few more times to really understand it. As someone studying a business degree, I found it interesting to be using programming in the way an Accountant might.

With the end of semester approaching, I'm relieved to see my understanding of programming progress, but feel that I am in need of revising previous week's work and lectures to make sure that I am ready.

Please find the two worksheets discussed attached.

Week 6

I really enjoyed this week's module, as it gave me a chance to apply the previous week's learning, into a more life-like situation.

First of all, the "Testing my Math" worksheet, where I had to create a test for a division program. This was something that was built on all of the learning from this unit, and I can really imagine using this in work such as accounting. In addition to other day-to-day or work-related situations.

While the debugging was a more specific task, it was good to be able to practice something that is going to be critical for my assessments. With any coding, it seems like learning to identify errors and debug a code is one of the most important skills.

With both of these tasks, despite it only being week 6 of the semester, it felt like a culmination of all that's been covered this semester. I struggled a bit with both of the tasks, so I will need to revise and do more practice before the assessment.