***Introduction to Business Programming Reflective Report ISYS2001***

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Table of Contents

1. Introduction
2. Reflective Analysis
3. Contributions to understanding of ISYS2001
4. Conclusion
5. References
6. Appendix: Weekly Journal Entries

***Introduction***

At first, I was really confused if I really want to study programming or not, but after the first class I was filled with motivation to learn something new. The professor made it very easy and clear for us that even if we can write the pseudocode correctly, we can use AI to write the code for us, which gave me confidence to continue with this class. In this report, I will be reflecting upon my experiences in the class of Introduction to Business programming course where we started with the basics of Python and learning all the functions of the language till learning how to use SQL and Python together.

***Reflective Analysis***

I found the 'Taste of Python' to be the most influential activity within this course. It served as our initial introduction to Python, and I recall it being quite the whirlwind of new concepts and ideas. Keeping pace with the professor while simultaneously absorbing all the new information was indeed challenging, but incredibly rewarding. We dove into different data types, such as integers, floats, strings, booleans, and lists. We also explored how to convert strings into integers, performed basic arithmetic operations including addition, subtraction, multiplication, and division. Additionally, we got to experiment with the 'True' or 'False' functionality in Python, using the greater than or less than operators. As I reflect back, I appreciate how this exercise provided a comprehensive overview of Python's basic capabilities.

The 'Speech to Text' activity stands out as a particular highlight during this course. It was a memorable moment because it marked the first time, I was officially allowed to use Artificial Intelligence (AI) in an academic setting. Until then, using AI in our coursework was not permitted. So, when we were allowed to use it in this course, it was a mix of anticipation and a bit of apprehension. Although I had tinkered with AI previously, deploying it in an academic context was a new adventure. Our professor played a pivotal role during this period, imparting valuable knowledge about AI and providing guidance on how to ethically use it without infringing on Curtin's plagiarism rules. The experience was a striking combination of novelty and education that made it unforgettable.

***Contributions to Understanding of ISYS2001.***

This assignment offers an extensive review of the various modules covered in our course. It kicks off by testing the ability to import libraries - an integral aspect of programming that allows us to utilize a variety of pre-existing tools for our code.

The assignment further evaluates our understanding of conditional statements, including 'if', 'elif', and 'else'. These structures form the backbone of decision-making processes in programming.

To make the assignment more interactive and user-centric, we're using the 'input' function. This allows us to adapt the experience to each individual user.

The testing functions also come into play in this assignment, specifically using the 'print' and 'assert' statements. These are essential for verifying the correctness of our program and displaying outputs.

Some elements from previous assignments are also utilized. For instance, the task involving the counting of lines and words in a sentence, originally from the Enron database assignment, makes a reappearance. The assignment goes back to the basics taught in the 'A Taste of Python' notebook, by requiring us to use greater than and less than signs.

Lastly, the assignment tests our ability to integrate web functionality in our programs. We do this by incorporating the 'import web' function from Module 8 in question three. The assignment, therefore, presents an amalgamation of everything we've learned throughout the course.

***Conclusion***

Looking back on this semester, I can honestly say that I learned more than I could have imagined when I first enrolled in the Introduction to Business Programming course at Curtin University. At the outset, I was both excited and anxious, eager to dive into the world of programming, but also feeling a bit out of my depth about learning Python, a language that was entirely new to me. Later, I also got an introduction to SQL, which I will be mastering later. Now, as I write this reflection, I'm amazed at how far I've come and how much I've grown, not just academically, but also personally. I've learned to speak a new language, and this isn’t just any language. Python, is a major player in the business world, have opened new doors and horizons for me.

However, this journey wasn't always smooth sailing. There were challenges and roadblocks, moments of frustration, and times when I questioned if I'd made the right choice. But I persevered, and now I can confidently say that I not only survived but thrived. This reflective analysis isn't just an academic requirement; it's an opportunity for me to look back and acknowledge my journey, the highs and the lows, and how they all played a part in shaping the student and budding professional I am today.

***Appendix : Weekly Entries :***

**Week 1:**

This week, I am really looking forward to learn more about python and make mistakes and learn from them.

**Week 2:**

This week we worked on programming and got a taste of python as the exercise is named after.

I worked around python and had errors running the code. I self-reflected that I am making silly mistakes and rushing through the process.

It made me feel I should slow down and do the work slowly and calmly, rather than rushing to make the code work.

I learned that Python is case-sensitive and that capital letters matter. When I was rushing to do the code I was forgetting the brackets or adding in extra comma's.

**Week 3:**

So for this week,

we are going for more advanced things. Now learning numbers and integers and different inputs and values.

I am trying to practice more at home also, and now I can work around most of the codes.

I learned that there are many ways to write one code and it all depends on you. In the end, the code should work and the client should be happy. no matter how u do it.

At first,I thought that adding space is essential for a code to work but I figured out that you do not need to press the spacebar all the time. the code can work without it. It just needed to look cleaner and organized.

I am still repeating the mistakes from last week which is forgetting to add the inverted comma or bracket and then I get an error

**Week 4:**

This week was very confusing for me. The code was not running properly for me so I was lagging in the class. I had to come home and watch the videos again to catch up with the professor.

My code was perfectly fine but still It did not work, There was a bug in the colab. I learnt that sometimes if you write a fine code with no mistakes it will still not work due to some bug and give error. I had to rewrite the exact code and it started working.

**Week 5:**

The professor taught me how AI and humans could work together this week. I thought that AI will replace humans, but after this class, I am convinced that Artificial Intelligence and humans can work together in the future.

I have been using ChatGPT before but using Microsoft Bing was something new for me which I experienced in this class.

**Week 6:**

Due to my foundation in maths being weak, this week was very tough for me. I had to first overcome my weakness in maths and then in my programming.

The whole time I was just concerned about how to solve equations and then write code.

I believe I now have to work more hard and practice more at home, so I can understand maths equations and write code.

**Week 7:**

This week I had an overview of the required things for this course. For example pep8 is used for this course.

As we are going into the course, it is getting difficult and hard.

I am thinking to increase my practice hours from 1 to 2. Since I am having difficulty in understanding the maths problem.

This session was a bit confusing for me because of sorting everything, I have to watch the recording of the class so I can be more clear.