Question 4

Write a reflective report that identifies and discusses what you perceive as the most impactful activity within this course unit, and its contributions to your understanding of an ISYS2001 activity or topic. **Additionally, please incorporate all your weekly journal entries as an appendix to this report.** The report should be prepared in a Microsoft Word document, which will be submitted via the TurnItin link available on Blackboard.

During the initial "Introduction to Business Programming" session, students were introduced to software program operations and data storage fundamentals. Translating language into code is vital. Pseudocode includes functions, if/else statements, loops, and Boolean expressions. The lesson taught me how to convert numbers from decimal to binary and vice versa. Discovering code magnets during training was captivating. We aim for mental clarity and achieve it through diligence. The series felt consistently "vanilla" but with different flavors. At first, ordering the program was challenging. Fun. The class was captivating from the start due to its high energy. We were excited about Python lectures and hoped for success.

In week two, I utilized the techniques taught in the lesson to tackle Python problems. The pseudocode was simplified for better memorization. Integers and floats have different purposes. The data structure's step order aided learning. Choosing the right variable content is crucial. The variables had incorrect quotes and spacing at first. The lesson showed how to connect GitHub and Google Colab. The tutorial cleared up my confusion and improved my understanding. We held events called "Sunday Winner" and "A Taste of Python." Two activities covered basic variable analysis. I experienced app problems. Issue resolved by correcting errors. This week's lessons were intriguing but more complex than last week's. My goals are to enhance my coding abilities and complete tasks efficiently. I plan to enhance their active listening, coding confidence, and algorithm comprehension in the upcoming weeks.

Week 3 included Built-in functions and User-defined functions. To add a variable to your code, use the "def" keyword to create a function. In the tutorial, I reviewed lesson notes using payslips and business terms. Variables were defined and utilized in the pay stub code—Python program conversion. The problem was confirmed through testing with various data sets. I aimed to improve my Python abilities and avoid mistakes.

In week four, we focused on learning about Built-in and User-defined functions. Learning to group similar items was a lesson I learned through containment. Students learned about comparative operators and their functions.

The group discussed Google Colaboratory, a versatile IDE. Use dir(random) or help(input) to get coding help and view options. Program execution halts due to naming errors. We gained knowledge about reading, writing, and adding files. The teacher gave us access to Google Colab files and instructed us to code them accurately. The logical operator's instruction was brief and useful. I soon became proficient in file and code analysis. I edit my work when I encounter mistakes and challenges. The online judge file gave me trouble, but the tutor assisted me in resolving it. This week's lessons were tough, but the tutorial gave useful tips.

I am looking forward to enhancing my coding skills in upcoming classes!

In week five, we learned about organizing data in files. Append, Read, Write, and Open were the four main processes. It included code results differing in format, data types, and line count. We also talked about system-provided and user-created components. We talked about modules and functions, specifically the random module. The code utilizes the "random " module's " choice " function. We learned how to manage files by opening, viewing, writing, and updating them. We learned file data addition. The talk will cover file data structure. Excitement and happiness filled the conversation.

This week's lesson was enjoyable. Following instructions taught me how to read and write and do basic math. I had compatibility issues with the user's machine that prevented them from connecting G.Collab and Google Drive files. This week's lecture was concise but thorough, effectively encompassing all the necessary information.

At first, GitHub file management was difficult for me. I strived to enhance my skills through practice. Lesson six helped me understand the difference between testing and debugging. The discussion mainly revolved around bug testing and fixing.

We covered modules, hashtag comments, function definition and usage, and related topics. We learned something helpful last week that helped us solve the problem. We learned about program bugs and the issues they cause. The problem involves syntax, runtime, and logic. Instructions were given to fix the issues.

Finally, in the seventh session, a function module was analyzed. Correcting errors was fun and mentally stimulating. Better file organization is a must. Initially, I acquired ample knowledge in this domain. Tracking coding progress boosted my confidence in coding terminology. I went to nearly all classes to improve my programming abilities for my job.

One of the most significant and noteworthy experiences during the course was encountered during the sixth- and seventh-week sessions. During this period, I encountered a considerable challenge in comprehending the intricacies of the coding process and effectively resolving any issues that arose. This presented a formidable obstacle that required a great deal of effort and perseverance to overcome. During the course of my learning, I encountered certain challenges, particularly with respect to certain chapters such as Data Analysis and Visualizations as well as Web Development. These topics posed certain difficulties that impeded my progress and required additional effort on my part to overcome. Upon conducting independent research and seeking assistance from both my peers and tutor, I was able to attain a more comprehensive understanding of the subject matter at hand. As a result of these efforts, the previously opaque concepts became more lucid and comprehensible to me.