Unit 6 - Reflection:

This week, I better understood abstract methods, interfaces, and evaluation metrics for object-oriented programming. This week's focus was on comprehending the benefits of using interfaces in Python, implementing them in programs, and evaluating the effectiveness of object-oriented code.

I began by reviewing the Codio module Encapsulations Activities, practising Python coding, and learning about the advantages of using interfaces in Python. With interfaces, I discovered how to enforce specific behaviour across multiple classes, promote code consistency, and create flexible and interchangeable components within a program.

This unit provided practical experience in developing Python programs that utilise interfaces. By implementing interfaces, I gained hands-on experience creating classes and ensuring they implement required methods, enhancing my ability to design and develop modular and reusable code.

Furthermore, I learned about evaluation metrics used to determine the effectiveness of object-oriented programs. Understanding these metrics is crucial for assessing code quality and maintainability, and I gained a better grasp of the principles that make for good object-oriented design.

Throughout the unit, I have completed the codio activity focused on encapsulation. These activities helped me track my progress and deepen my understanding of the covered concepts.

The knowledge and skills I acquired during this unit will be crucial in the upcoming summative assessment and will continue contributing to my growth as an aspiring

analyst programmer. I am eager to apply these concepts and principles in the remaining weeks of the module.

This week has been quite challenging for me as I have spent a lot of time reading, coding, and researching. While trying to design a diagram class, I needed clarification as I delved deeper into software design. I need to improve my learning process to gain a more constructive insight into what I am studying. I find it difficult because I am overwhelmed by the vast amount of information I have accumulated through my research, and trying to apply it all in a single week has been quite daunting. Don't get me wrong; I love all this and am fascinated about learning UML. It is quite positive because, being someone curious and enthusiastic about science, understanding this process fascinates me, but at the same time, knowing I need to produce results to show I am getting somewhere makes me anxious and nervous because I feel a lot of pressure. Despite the challenges, I remain hopeful that this is just a normal part of the process, and with perseverance, I will eventually overcome and achieve success.