

Unit 6 - Reflection:

This week presented its challenges, but I remained focused on balancing my readings and preparing for upcoming tasks. I persevered and achieved all my goals. Reflecting on my progress, I am proud to say that I have gained a comprehensive understanding of Python programming, particularly classes and abstract interfaces, thanks to this week's rigorous coursework. The materials presented have widened my knowledge and provided me with a fresh perspective on the theoretical evaluation of object-oriented code.

At the 'Abstraction in Object-Oriented Programming seminar', I had the chance to put my theoretical knowledge into practice by creating a Python program that utilised interfaces. This experience gave me a deeper understanding of how they can be effectively implemented. With a careful analysis of various sources and examples, I learned how to write code that supports code reuse and modularity, resulting in programs that are easier to maintain and extend over time.

Moreover, I assessed the efficiency of object-oriented programs and their practical components using metrics. By analysing these metrics, I evaluated an object-oriented program's features and developed a 'Python program with three abstract methods and one subclass that enables users to conduct banking operations.' This exercise helped me comprehend how to create better scalable and maintainable code while considering its impact on development.

Unit 6 has significantly expanded my knowledge and abilities in Python programming using abstract classes and interfaces. This hands-on experience is crucial for the coding portion of the summative evaluation, enabling me to develop more reliable and modular solutions using these concepts. I am excited to apply these skills to future

programming projects and develop trustworthy and maintainable code using interfaces and abstract classes while considering relevant metrics. The practical work completed during this week has helped me better comprehend these concepts, and I am confident that it will aid me in succeeding during the summative evaluation and beyond.