Unit 9 – Reflection:

Throughout Unit 9, my primary focus was learning the lecture cast packaging and testing, which provided a comprehensive overview of these concepts and their importance in software development.

My second and challenge focus was the ePortfolio activities, in which I faced a huge challenging reading and researching cyclomatic complexity. I have learned how relevant cyclomatic complexity is in object-oriented systems. The alternative metrics are more reflective of the complexity of a piece of code, compared to the number of independent paths through a program.

My research on packaging a Python program taught me the significance of organising code into packages and modules. I have gained knowledge in creating directory packages and the structure of a basic package.

This unit's learning also covered testing methodologies and the various approaches to testing code. By leveraging tools such as the best Python testing frameworks like Behave, Lettuce, Robot Framework, Pytest, Unittest, and Doctest, developers can ensure the quality of their code. The relevance of these tools in evaluating code complexity, finding bugs, and maintaining code integrity was emphasised.

Unit 9 provided valuable information about packaging and testing Python code. I highlighted the importance of proper packaging, effective documentation, and testing tools to ensure code quality. These concepts are vital to producing reliable, maintainable code, and I'm more prepared to apply them in my future Python development projects.

This week, my biggest challenge has been reading and researching various topics while trying to balance my daughter's need for attention. Despite having to study after

work hours and amid a family environment, I strive to dedicate my efforts to reading, taking notes, and writing my learning outcomes for my ePortfolio. I can effectively manage my time and maintain my resilience through this approach.