Learning Summary Report

1. Self-Assessment

During this unit, my focus in the key areas of Computer Science reflects my understanding and application of these concepts:

- **Set Theory:** My engagement with set theory, across various levels (C, D, HD, P), has been in-depth. I have been able to prove some relatively complex set relation expressions, which reflects my high level of understanding and application.
- **Number Theory:** I have delved into number theory at different complexities (C, D, HD, P), gaining a solid foundation in this fundamental area. My work in this domain has been particularly focused on practical applications and theoretical understanding.
- **Relations and Functions:** I have shown skillful application in the area of relations and functions, being able to use given definitions to prove more complex relationships.
- **Graph Theory:** I have mastered the construction of special graphs and how to build required graphs. My comprehensive study of graph theory has led me to understand the application of graph structures and algorithms in computing.

Given this self-assessment, I believe my portfolio aligns well with the criteria, and I am applying for a grade of HD.

2. Reflections on the Unit

This unit provided me with challenges and ample learning opportunities:

- **New Insights:** Subjects like number theory, set theory, relations, and functions were relatively easy for me. Despite spending a lot of time on the HD problems in set theory and ultimately resolving them, I am still uncertain whether I can quickly solve problems of similar difficulty in the future.
- **Overcoming Challenges:** Problems in graph theory were more challenging for me, requiring a significant amount of time to understand. Although I now have the ability to solve practical problems using graph structures and algorithms, I believe there is still room for improvement in this area.