2nd Assessment Report Template

Your name + Your Aberdeen student ID

1. Introduction

1st paragraph: Explain the purpose of the Task Scheduler (2 points).

2nd paragraph: Describe the main features and functionality of the Task Scheduler (3 points).

1. Task Class Design

1st paragraph: Explain the attributes of the Task class (6 points).

2nd paragraph: Describe the methods of the Task class, their purpose, and implementation (10 points).

3rd paragraph: Discuss encapsulation and how it is achieved in the Task class (4 points).

1. PriorityQueue Class Design

1st paragraph: Explain the choice of the priority queue data structure used in the PriorityQueue class (6 points).

2nd paragraph: Describe the attributes of the PriorityQueue class (4 points).

3rd paragraph: Explain the methods implemented for adding, removing, and peeking at tasks, along with their purpose and implementation (10 points).

4th paragraph: Discuss how sorting tasks based on deadlines as a secondary criterion is achieved (5 points).

1. Scheduler Class Design

1st paragraph: Explain how the Scheduler class utilises the PriorityQueue class (6 points).

2nd paragraph: Describe the attributes of the Scheduler class (4 points).

3rd paragraph: Explain the methods implemented for adding, removing, reordering, and executing tasks, along with their purpose and implementation (10 points).

4th paragraph: Discuss any design choices made in the Scheduler class and their reasoning (5 points).

1. Testing and Demonstration

1st paragraph: Describe the test program and main function used to demonstrate the Task Scheduler's functionality (8 points).

2nd paragraph: Provide sample input/output to show the Task Scheduler's performance (8 points).

3rd paragraph: Discuss any challenges faced during testing and how they were resolved (4 points).

1. Conclusion

1st paragraph: Summarise the project and its main features (2 points).

2nd paragraph: Reflect on the learning experience and the application of OOP concepts (2 points).

3rd paragraph: Suggest possible improvements or future enhancements (1 point).