**ASSIGNMENT 1 FRONT SHEET**

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| **Qualification** | **BTEC Level 5 HND Diploma in Computing** | | |
| **Unit number and title** | Unit 20: Advanced Programming | | |
| **Submission date** |  | **Date Received 1st submission** |  |
| **Re-submission Date** |  | **Date Received 2nd submission** |  |
| **Student Name** |  | **Student ID** |  |
| **Class** | GCH0705 | **Assessor name** | Doan Trung Tung |
| **Student declaration**  I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice. | | | |
|  |  | **Student’s signature** |  |

**Grading grid**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| P1 | P2 | M1 | M2 | D1 | D2 |
|  |  |  |  |  |  |

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| **❒ Summative Feedback: ❒ Resubmission Feedback:** | | |
| **Grade:** | **Assessor Signature:** | **Date:** |
| **Lecturer Signature:** | | |

# Introduction

Introduce about the report

# OOP general concepts

Introduce OOP, general concepts of OOP (need references / citations here)

# OOP scenario

## Scenario

Description of OOP scenario

## Usecase Diagram

Diagram + explanation

## Class Diagram

Diagram + explanation (show what OOP concepts are displayed in diagram)

# Design Patterns

Introduce design pattern, general concepts of Design Pattern (need references / citations here)

## Creational pattern

Introduce creational pattern (need references / citations)

Description of a creational scenario

Diagram + explanation

## Structural pattern

Introduce creational pattern (need references / citations)

Description of a structural scenario

Diagram + explanation

## Behavioral pattern

Introduce creational pattern (need references / citations)

Description of a behavioral scenario

Diagram + explanation

# Design Pattern vs OOP

Discuss / analyze the relationship between design pattern & OOP (should use your patterns in section 4 for specific discussion / analysis)

# Conclusion

Give conclusion for your report