

# COS20007

## Object Oriented Programming

Learning Summary Report

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## Self-Assessment Details

The following checklists provide an overview of my self-assessment for this unit.

	Pass (D)	Credit (C)	Distinction (B)	High Distinction (A)
Self-Assessment		✓		

### Self-Assessment Statement

	Included
Learning Summary Report	✓
Test is Complete in Doubtfire	✓
C# programs that demonstrate coverage of core concepts	✓
Explanation of OO principles	✓
All Pass Tasks are Complete on Doubtfire	✓

### Minimum Pass Checklist

	Included
All Credit Tasks are Complete on Doubtfire	✓

### Minimum Credit Checklist (in addition to Pass Checklist)

	Included
Distinction tasks (other than Custom Program) are Complete	✓
Custom program meets Distinction criteria & Interview booked	
Design report has UML diagrams and screenshots of program	

### Minimum Distinction Checklist (in addition to Credit Checklist)

	Included
HD Project included	
Custom project meets HD requirements	

### Minimum High Distinction Checklist (in addition to Distinction Checklist)

## Declaration

I declare that this portfolio is my individual work. I have not copied from any other student's work or from any other source except where due acknowledgment is made explicitly in the text, nor has any part of this submission been written for me by another person.

Signature: **Shafi Uzman Fassy**

## Portfolio Overview

This portfolio includes work that demonstrates that I have achieved all Unit Learning Outcomes for COS20007 Unit Title to a **Credit** level.

All my pass and credit tasks have been submitted and signed off by the unit instructors. Therefore, I believe that I have demonstrated a good level of understanding on all Object-Oriented Programming concepts that I have learnt in this unit.

Due to completing the tasks I have learnt on how to create well-structured object-oriented coding such as to be able to create objects classes that implements some of the unit learning components such as abstractions, polymorphism and inheritances in tasks such as the shape drawer and swin-adventure tasks.

## Reflection

*The most important things I learnt:*

Before this unit, I was learning other languages which gave me the basic concepts and skills for coding however, this unit has taught me and there is more to learn about programming and C# which has been fun and interesting to learn.

The most important thing I learnt from this unit was converting UML diagrams to program which is very useful when planning on building larger projects in the future.

*The things that helped me most were:*

- Unit Testing
- UML Diagrams
- Using Visual Studios

*I found the following topics particularly challenging:*

- Interfaces and Exceptions – still struggling in fully understanding how to use interfaces.
- UML sequences

*I feel I learnt these topics, concepts, and/or tools really well:*

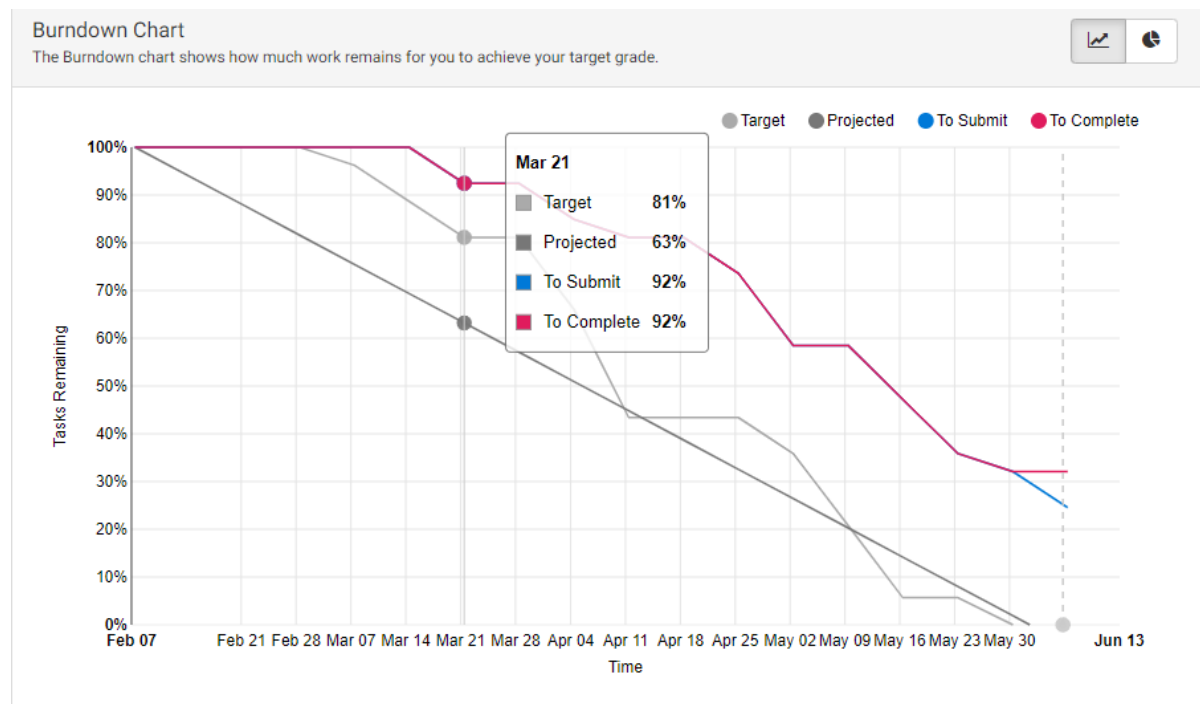
I have always seen C# being the most used programming language when it comes to game development, and I am currently pursuing a major in game development. Therefore, I was eager to learn more about C# and all the tools and concepts surrounding it.

*I still need to work on the following areas:*

I am interested in working more on how to implement interfaces and learn more on using polymorphism in larger programs.

### My progress in this unit was ...:

As the chart shows I was procrastinating for the first few weeks on the weekly task as I was prioritizing my other unit assignments however by week 3, I started to focus on completing all tasks need before the task 8 mid semester exam however in week 12 I had some issues on tasks 7.1 and 7.2 that need to be fixed got delayed as I had a final written exam due that week as well. However, the to submit line is for this Learning Summary Report which should show as all tasks completed once submitted.



### This unit will help me in the future:

If I am to pursue a career in game development, C# will come in handing with all the Unit Learning Outcomes I have been taught.

### If I did this unit again, I would do the following things differently:

I would focus more on the beginning of the unit as I gave this unit the least amount of attention as I prioritized my other units of the semester over this unit for the first 5 weeks before really pushing myself to complete all the tasks on time. I would have liked to be able to do a custom program and get the HD grade. However, this unit has been a fun unit this semester.