

ASSESSMENT AND INTERNAL VERIFICATION FRONT SHEET (Individual Criteria)

Course Title	Advanced Diplo	ploma		Lecturer Name & Surname	NEIL AQUILINA	
Unit Number & Title		Programming for Computer Games				
Assignment Number, Title / Type		Simple 2D Car Game - Home				
Date Set		09/12/2020	Deadline Date	19/01/2021		
Student Name	Miles al Zammit		ID Number	0003403L	Class / Group	4.2B
Student's declaration prior to handing-in of assignment: ¹ I certify that the work submitted for this assignment is my own and that I have read and understood the respective Plagiarism Policy						
Student's declaration on assessment special arrangements (Tick only if applicable) ↑ I certify that adequate support was given to me during the assignment through the Institute and/or the Inclusive Education Unit. ↑ I declare that I refused the special support offered by the Institute.						
Student Signature: Date: 17/01/2021						

Assessment Criteria	Maximum Mark	Mark Achieved
KU2: Describe asset types	5	
KU5: Identify suitable resolution for images of various types	5	
KU6: Select asset types and settings for a range of media assets for a game design	5	
KU7: Idenitfy resolution issues for the development platforms	5	
KU8: Identify appropriate input devices and methods for development platforms	5	
KU9: Show and explain how to deploy a game to multiple devices	5	
AA1: Examine and apply basic programming techniques for a simple game	7	
AA2: Develop a game with graphical and audio assets	7	
AA3: Demonstrate ability to resolve issues and input devices in the development environment	7	
AA4: Apply coroutines for a more interesting gameplay	7	
AA5: Examine and solve gameplay problems	7	
SE2: Resolve programming issues related to sound, graphics and gameplay	10	
Total Mark	75	

Assessor's feedback to student	



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(If necessary, use reverse side of page for IV feedback on assignment brief / sample of assessment	nt decisions)
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	Name & Surname	Signature	Date
Internal Verifier: Approval of assignment brief		For approval signature, please refer to electronic audit trail	
Lecturer / Assessor : Issue of results and feedback to student		For approval signature, please refer to electronic audit trail	
Internal Verifier: Approval of <u>assessment</u> <u>decisions (</u> Sample)		For approval signature, please refer to electronic audit trail	
Learner's signature upon collection of corrected assignment.			

Assessment Criteria



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KU2: Describe asset types
KU5: Identify suitable resolution for images of various types
KU6: Select asset types and settings for a range of media assets for a game design
KU7: Idenitfy resolution issues for the development platforms
KU8: Identify appropriate input devices and methods for development platforms
KU9: Show and explain how to deploy a game to multiple devices
AA1: Examine and apply basic programming techniques for a simple game
AA2: Develop a game with graphical and audio assets
AA3: Demonstrate ability to resolve issues and input devices in the development environment
AA4: Apply coroutines for a more interesting gameplay
AA5: Examine and solve gameplay problems
SE2: Resolve programming issues related to sound, graphics and gameplay





IICT4016 - Programming for Computer Games

Create a Simple 2D Car Game

Scenario: 2D Car Game

You are to create a simple 2D Car Game where your goal is to move the car left and right to avoid the obstacles found on the way, while having a scrolling background.

The game:

You should be able to control the car by moving only left and right. Obstacles will spawn and move from top to bottom at different speeds and having different damage levels. Obstacles can be other cars, stones, barriers, etc. 2 types of obstacles should also fire.

For every obstacle that your car avoids you get 5 points. When you reach 100 points you win the game.

If you get hit by obstacles, your health is reduced. If your health <= 0, Game Over.

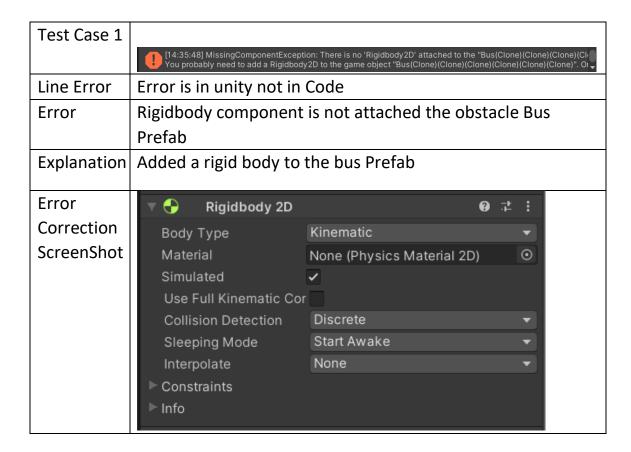
N.B.: Different tasks have different deadlines so make sure that you keep up with your deadline dates.

Always upload your project on GitHub repository and share it with your lecturer.



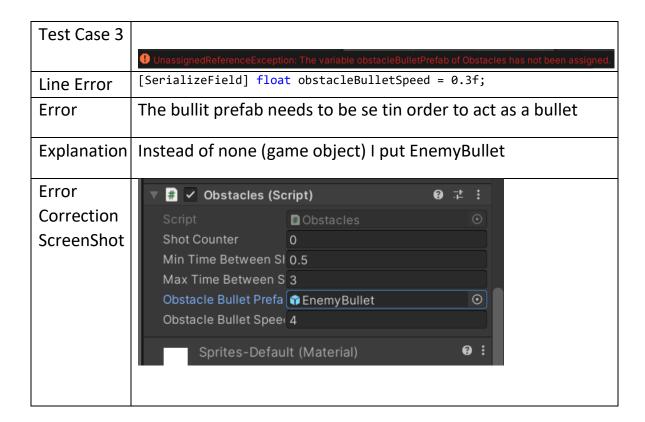
Task 3: Review, Build and Deploy the Game (Deadline Date: 20 January 2021)

a. During Development you will encounter programming issues and gameplay problems. You are to document 14 **different** errors shown by the Console, the line error where you had the problems and a short explanation on how you solved the problem. Use the Game Test Document provided to document such information. Save the Game Test Document as a PDF and upload on Github. An example is shown below:



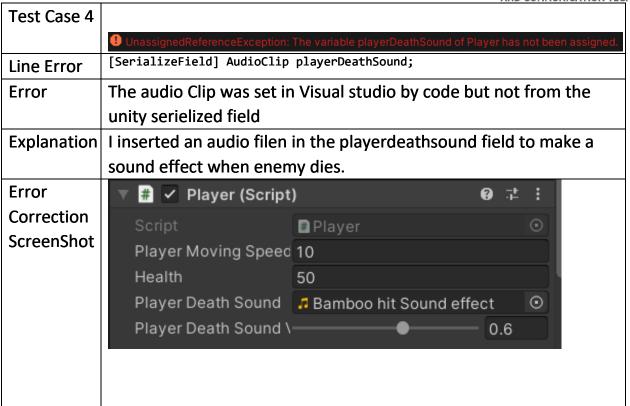


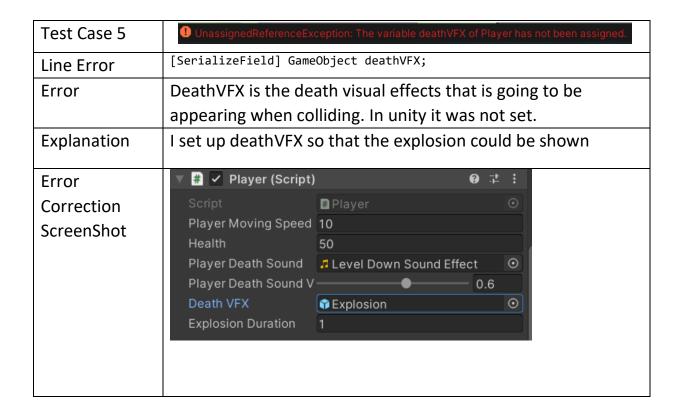






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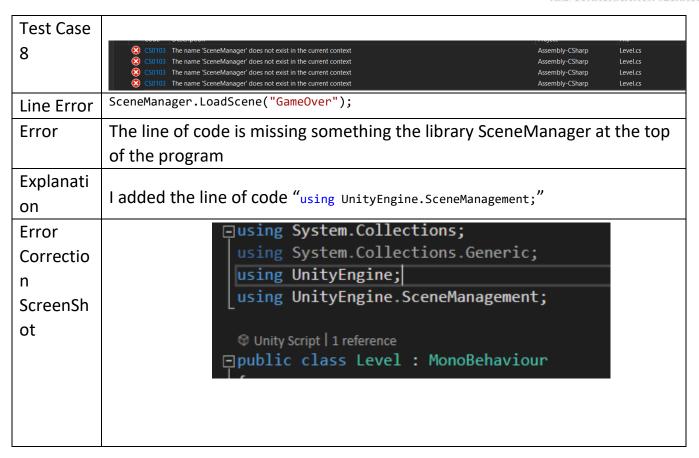




Test Case 6	
	Assets Scripts Player.cs(22,57): error CS0411: The type arguments for method 'GameObject.GetComponent <t>()' cannot be inferred from the usage. Try specifying the type arguments explicitly.</t>
Line Error	DamageDealer dmgDealer = otherObject.gameObject.GetComponent();
Error	The line of code was not finding a connection or a reference from the DamageDealer class
Explanation	In the GetComponent parameter there needs to be the Damage dealer refernce GetComponent< DamageDealer >()
Error Correction ScreenShot	Unity Message O references private void OnTriggerEnter2D(Collider2D otherObject) { DamageDealer dmgDealer = otherObject.gameObject.GetComponent ProcessHit(dmgDealer); }

Test Case 7	
	• Assets\Scripts\Player.cs(29,9): error CS0201: Only assignment, call, increment, decrement, await, and new object expressions can be used as a statement
Line Error	health - dmgDealer.GetDamage();
Error	The line of code is missing something that is not letting the programm to decrement the score
Explanation	The problemi s that after the '-' there needs to be an '=' to the code to be exectuted well.
Error Correction ScreenShot	<pre>private void ProcessHit(DamageDealer dmgDealer) { health -= dmgDealer.GetDamage(); AudioSource.PlayClipAtPoint(playerDeathSound, Camera.main.transform.position, playerDeathSoundVolume); }</pre>





(AA5 - 7 marks)