

Assessment 01: Roguelike Assessment Rubric

	10-9	8-7	6-5	4-0
Planning Document	<p>Planning document submitted before the due date. The provided set of questions are thoroughly answered in detail.</p> <p>System design thoroughly planned and no changes to the submitted planning document.</p>	<p>Planning document submitted before the due date. The provided set of questions are mostly answered in detail.</p> <p>System design mostly planned and a few changes to the submitted planning document.</p>	<p>Planning document submitted after the due date. The provided set of questions are answered in some detail.</p> <p>System design planned and several changes to the submitted planning document.</p>	<p>Planning document submitted after the due date or not submitted. The provided set of questions are answered, though in minimal or no detail.</p> <p>System design poorly planned or not planned.</p>
Code Commenting	<p>All header comments thoroughly explain the input, output, effect and computational logic of each class and method.</p> <p>All inline comments thoroughly explain the logic of construct of each computational statement.</p>	<p>Most header comments explain the input, output, effect and computational logic of each class and method.</p> <p>Most inline comments explain the logic of construct of each computational statement.</p>	<p>Some header comments explain the input, output, effect and computational logic of each class and method.</p> <p>Some inline comments explain the logic of construct of each computational statement.</p>	<p>Minimal or no header comments explain the input, output, effect and computational logic of each class and method.</p> <p>Minimal or no inline comments explain the logic of construct of each computational statement.</p>

Code Elegance	<p>All class files contain no integer literals except for 0, 1 and 2.</p> <p>Application demonstrates thorough elegance on all of the following:</p> <ul style="list-style-type: none"> • Correct use of intermediate variables, e.g., no method calls as arguments • Idiomatic use of control flow and data structures • Sufficient modularity, e.g., classes, methods have a single purpose • Efficient algorithmic approach 	<p>Most class files contain no integer literals except for 0, 1 and 2.</p> <p>Application demonstrates clear elegance on most of the following:</p> <ul style="list-style-type: none"> • Correct use of intermediate variables, e.g., no method calls as arguments • Idiomatic use of control flow and data structures • Sufficient modularity, e.g., classes, methods have a single purpose • Efficient algorithmic approach 	<p>Some class files contain no integer literals except for 0, 1 and 2.</p> <p>Application demonstrates elegance on some of the following:</p> <ul style="list-style-type: none"> • Correct use of intermediate variables, e.g., no method calls as arguments • Idiomatic use of control flow and data structures • Sufficient modularity, e.g., classes, methods have a single purpose • Efficient algorithmic approach 	<p>Class files contain frequent integer literals.</p> <p>Application does not demonstrate elegance on any of the following:</p> <ul style="list-style-type: none"> • Correct use of intermediate variables, e.g., no method calls as arguments • Idiomatic use of control flow and data structures • Sufficient modularity, e.g., classes, methods have a single purpose • Efficient algorithmic approach
OO Architecture	<p>All classes adhere to a general OO architecture, e.g., classes, methods, concise naming and methods assigned to the correct classes.</p> <p>Inheritance fully and carefully implemented in classes, e.g., player sprite inherits from sprite.</p> <p>Finite State Machine (FSM) implemented fully and stores three states and actions.</p>	<p>Most classes adhere to a general OO architecture, e.g., classes, methods, concise naming and methods assigned to the correct classes.</p> <p>Inheritance mostly implemented in classes, e.g., most classes are deriving from base classes.</p> <p>Finite State Machine (FSM) mostly implemented and stores two states and actions.</p>	<p>Some classes adhere to a general OO architecture, e.g., classes, methods, concise naming and methods assigned to the correct classes.</p> <p>Some inheritance implemented in classes, e.g., some classes are deriving from base classes, though some are incorrectly implemented in the wrong classes.</p> <p>Some Finite State Machine (FSM) implemented and stores one state and action.</p>	<p>Classes adhere to minimal or no general architecture, e.g., classes, methods, concise naming and methods assigned to the correct classes.</p> <p>Minimal inheritance implemented or not attempted.</p> <p>Minimal Finite State Machine (FSM) implemented or not attempted.</p>

Functionality & Robustness	<p>Application opens in Visual Studio 2017 without errors and does not need to be modified to be run.</p> <p>Application demonstrates thorough functionality & robustness on all the following:</p> <ul style="list-style-type: none"> • Displayed at the correct screen size of 1920x1080 • Dungeon represented as a tile map • Edge of the world has a dead zone which is $\frac{1}{2}$ the dimension of the viewable area • Dungeon procedurally generated at each new level, e.g., multiple non-overlapping rooms, walls, corridors and portal tiles correctly placed • Fog of war reveals the dungeon as the player character progressively navigates through the dungeon • One or more player characters are controlled by user keyword • Two distinct animated enemies • Careful sprite and terrain collision detection, e.g., sprite to enemy, sprite to wall collision detection 	<p>Application does open in Visual Studio 2019, though needs to be modified to be run.</p> <p>Application demonstrates most functionality & robustness on all the following:</p> <ul style="list-style-type: none"> • Displayed at the correct screen size of 1920x1080 • Dungeon represented as a tile map • Edge of the world has a dead zone which is $\frac{1}{2}$ the dimension of the viewable area • Dungeon procedurally generated at each new level, e.g., multiple non-overlapping rooms, walls, corridors and portal tiles correctly placed • Fog of war reveals the dungeon as the player character progressively navigates through the dungeon • One or more player characters are controlled by user keyword • Two distinct animated enemies • Careful sprite and terrain collision detection, e.g., 	<p>Application needs to be modified to be open and run in Visual Studio 2019.</p> <p>Application demonstrates some functionality & robustness on all the following:</p> <ul style="list-style-type: none"> • Displayed at the correct screen size of 1920x1080 • Dungeon represented as a tile map • Edge of the world has a dead zone which is $\frac{1}{2}$ the dimension of the viewable area • Dungeon procedurally generated at each new level, e.g., multiple non-overlapping rooms, walls, corridors and portal tiles correctly placed • Fog of war reveals the dungeon as the player character progressively navigates through the dungeon • One or more player characters are controlled by user keyword • Two distinct animated enemies • Careful sprite and terrain collision detection, e.g., 	<p>Application cannot be opened in Visual Studio 2019 or application is empty.</p> <p>Application does not demonstrate functionality & robustness on any of the following:</p> <ul style="list-style-type: none"> • Displayed at the correct screen size of 1920x1080 • Dungeon represented as a tile map • Edge of the world has a dead zone which is $\frac{1}{2}$ the dimension of the viewable area • Dungeon procedurally generated at each new level, e.g., multiple non-overlapping rooms, walls, corridors and portal tiles correctly placed • Fog of war reveals the dungeon as the player character progressively navigates through the dungeon • One or more player characters are controlled by user keyword • Two distinct animated enemies • Careful sprite and terrain collision detection, e.g., sprite to enemy, sprite to
----------------------------	--	---	--	--

	<ul style="list-style-type: none"> Careful collision detection that affects the score and condition, e.g., sprite to coin, sprite to health potion Working battle system, e.g., turn-based or/and to-the-death Immediate gameplay feedback including battle system feedback, score, win and loss One enemy that exhibits artificial intelligence behaviour. This may be implemented using trigonometry 	<p>sprite to enemy, sprite to wall collision detection</p> <ul style="list-style-type: none"> Careful collision detection that affects the score and condition, e.g., sprite to coin, sprite to health potion Working battle system, e.g., turn-based or/and to-the-death Immediate gameplay feedback including battle system feedback, score, win and loss One enemy that exhibits artificial intelligence behaviour. This may be implemented using trigonometry 	<p>sprite to enemy, sprite to wall collision detection</p> <ul style="list-style-type: none"> Careful collision detection that affects the score and condition, e.g., sprite to coin, sprite to health potion Working battle system, e.g., turn-based or/and to-the-death Immediate gameplay feedback including battle system feedback, score, win and loss One enemy that exhibits artificial intelligence behaviour. This may be implemented using trigonometry 	<p>wall collision detection</p> <ul style="list-style-type: none"> Careful collision detection that affects the score and condition, e.g., sprite to coin, sprite to health potion Working battle system, e.g., turn-based or/and to-the-death Immediate gameplay feedback including battle system feedback, score, win and loss One enemy that exhibits artificial intelligence behaviour. This may be implemented using trigonometry
Player Experience	<p>Highly attractive, with a coherent graphical theme and style</p> <p>Application is highly appealing and has an engaging game play experience</p>	<p>Mostly attractive, with a coherent graphical theme and style</p> <p>Application is mostly appealing and has an engaging game play experience</p>	<p>Somewhat attractive, with a graphical theme or style</p> <p>Application is somewhat appealing and has an engaging game play experience</p>	<p>Minimal attempt or no coherent graphical and style</p> <p>Application is not appealing or engaging, e.g., no game play experience</p>

Marking Cover Sheet



Assessment 01: Roguelike IN628 Programming 4 Level 6, Credits 15 Bachelor of Information Technology



Name: _____ Date: _____

Learner ID: _____

Assessor's Name: _____

Assessor's Signature: _____

Criteria	Out Of	Weighting	Final Result
Planning Document	10	10	
Code Commenting	10	10	
Code Elegance	10	25	
OO Architecture	10	20	
Functionality & Robustness	10	25	
Player Experience	10	10	
Final Result			/100
This assessment is worth 45% of the final mark for the Programming 4 course.			