

Assessment 2: Mini Project

Assessment Attributes	D	C	B	A	A+
<p>The application implements a minimum of the following core features & qualities:</p> <ul style="list-style-type: none"> • Four of the individual steering behaviours are implemented. • The flocking algorithm is implemented. • One of the other three group behaviours is implemented. • Implemented algorithms all pass the tests and follow the rules highlighted in the document. <p>70%</p>	<p>less than four steering behaviours have been implemented or implemented behaviours contain lots of bugs or errors affecting the functionality of the algorithms.</p> <p>Program contains runtime errors/crashes that prevents it from running.</p>	<p>Four steering behaviours have been sufficiently implemented or some behaviours contain bugs or errors affecting the functionality of the algorithms.</p>	<p>Six steering behaviours have been sufficiently implemented and behaves correctly and demonstrates a functional understanding of the underlying AI principles.</p> <p>OR</p> <p>all the behaviours are implemented but some of them have some errors or bugs.</p>	<p>Six steering behaviours have been implemented and they function properly.</p> <p>Program meets the minimum requirements & feature set and demonstrates a proficient understanding of the underlying AI principles.</p>	<p>Program meets the minimum requirements & feature set and demonstrates an advanced understanding of the underlying AI principles.</p> <p>Some additional features have been attempted and implemented.</p> <p>Example: combining individual behaviours within group behaviours (group object avoidance)</p>

<ul style="list-style-type: none"> The user can choose which algorithm the agents will follow. The user can add more agents to the scene in group behaviours. The environment has some obstacles that the agent needs to avoid. The movement of the agent(s) are smooth, and they do not get stuck around corners or on the walls. If your object moves out of the screen boundary it needs to wrap around from the opposite side <p>20%</p>	<p>Not all features have been sufficiently implemented</p> <p>OR</p> <p>Implemented features contain bugs or errors affecting the functionality of the build.</p>	<p>Most of the features have been sufficiently implemented</p> <p>OR</p> <p>Some of the implemented features contain bugs or errors affecting the functionality of the build.</p>	<p>Program meets the minimum requirements & feature set</p> <p>AND</p> <p>demonstrates a functional understanding of the underlying programming principles.</p>	<p>Program meets the minimum requirements & feature set</p> <p>AND</p> <p>demonstrates a proficient understanding of the underlying programming principles.</p>	<p>Program meets the minimum requirements and feature set and demonstrates an advanced understanding of the underlying programming principles.</p> <p>Some additional features have been attempted and implemented.</p>
<p>The software project is organised and correctly submitted.</p> <ul style="list-style-type: none"> The submission is clean with no unnecessary files. Folder structure and filenames conform to given specifications. 	<p>Project files and build not correctly separated. Unnecessary files included in project.</p> <p>Project, folder or filenames do not consistently conform to given specification.</p>	<p>All necessary project files and executables files have been separated and submitted.</p> <p>Project contains some unnecessary files but build</p>	<p>Project contains some unnecessary files but build and executable files are appropriately separated.</p> <p>Folders and filenames conform to given specifications.</p>	<p>No unnecessary files submitted as per submission requirements.</p> <p>Folders and filenames conform to given specifications.</p>	<p>No unnecessary files submitted as per submission requirements.</p> <p>Folders and filenames conform to given specifications.</p> <p>Build and executable files appropriately separated.</p>

<ul style="list-style-type: none"> An executable has been submitted separately. <p>5%</p>		<p>and executable files are appropriated separated.</p> <p>Folders and filenames conform to given specifications.</p>			
<p>The software project displays the following qualities.</p> <ul style="list-style-type: none"> Code formatting is consistent, with good use of whitespace, tabbing and alignment. Consistent and clear naming convention is used. Where necessary, comments are used to clarify the purpose and use of data and functions. Comments demonstrate clear understanding of the related code. MDS file headers are used at the beginning of all files. Function headers are used before each function to show what exactly the function does <p>5%</p>	<p>Little to no commenting. Code formatting is inconsistent, or no attempt made towards readability.</p>	<p>Code formatting is consistent, with appropriate use of whitespace, tabbing and alignment.</p> <p>Clear naming conventions are used.</p> <p>Comments are used to describe the purpose and use of key data and functions.</p>	<p>Code formatting is consistent, with appropriate use of whitespace, tabbing and alignment.</p> <p>Consistent and clear naming conventions are used.</p> <p>Comments are used to clarify the purpose and use of data and functions.</p> <p>Comments demonstrate an understanding of the key areas of related code.</p>	<p>Code formatting is consistent, with appropriate use of whitespace, tabbing and alignment.</p> <p>Consistent and clear naming conventions are used.</p> <p>Comments are used to clarify the purpose and use of data and functions.</p> <p>Comments demonstrate a proficient understanding of the related code throughout the project.</p>	<p>Code formatting is consistent, with appropriate use of whitespace, tabbing and alignment.</p> <p>Consistent and clear naming conventions are used.</p> <p>Comments are used to clarify the purpose and use of data and functions.</p> <p>Comments demonstrate an advanced understanding of the related code.</p>

- The chart below outlines the grading scale used for grade student summatives and for final grading.

Grade	Range
A+	100-90%
A	89%-85%
A-	84%-80%
B+	79% - 75%
B	74% - 70%
B-	69%-65%
C+	64% - 60%
C	59% - 55%
C-	54% - 50%
D	49% - 0%