**Section: Programming (Advocate: Manish Gadhvi)**

**Provide a definition of what an algorithm is and outline the process in building an application.**

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| <https://github.com/MarkB19988/Glossary-of-Programming-Terms#1-algorithm>  <https://github.com/MarkB19988/Project1-TraceBall#constructing-and-implementing-my-code>  <https://github.com/MarkB19988/Project2-HigherLower#flowchart> |
| The first link points to a definition of what an algorithm is in a glossary. The second link points to a section in my project 1 documentation that explains how I implemented code and algorithms into that project. The third link points to a flowchart in my project 2 documentation that shows a visual representation of the algorithm used. |

**Give explanations of what procedural, object orientated and event driven paradigms are; their characteristics and the relationship between them.**

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| <https://github.com/MarkB19988/Glossary-of-Programming-Terms#2-programming-paradigms> |
| This link points to a section of a glossary that explains what these 3 paradigms are and how they differ. |

**Write a program that implements an algorithm using an IDE.**

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| <https://github.com/MarkB19988/Project2-HigherLower/blob/master/Higher%20or%20Lower%20final.h>  <https://github.com/MarkB19988/Project2-HigherLower/blob/master/README.md#flowchart>  https://github.com/MarkB19988/Project2-HigherLower#ide  <https://github.com/MarkB19988/Project2-HigherLower#ide-used> |
| The first link points to the full code that was created using an IDE. The second links to a flowchart to give a visual representation of the algorithm that was implemented. The third links to an explanation of why I am using an IDE and the fourth link points to a screenshot of me working using the IDE. |

**Explain the debugging process and explain the debugging facilities available in the IDE.**

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| <https://github.com/MarkB19988/Glossary-of-Programming-Terms/blob/master/README.md#3-debugging-process> |
| This link points to a section in my glossary that explains the debugging process and what advantages and facilities an IDE provides. |

**Outline the coding standard you have used in your code.**

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| <https://github.com/MarkB19988/Project1-TrackerBall#coding-standards> |
| This link points to |

**Determine the steps taken from writing code to execution.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Analyse the common features that a developer has access to in an IDE.**

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**Use the IDE to manage the development process of the program.**

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**Evaluate how the debugging process can be used to help develop more secure, robust applications.**

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**Examine the implementation of an algorithm in a suitable language. Evaluate the relationship between the written algorithm and the code variant.**

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**Critically evaluate the source code of an application which implements the programming paradigms, in terms of the code structure and characteristics.**

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**Evaluate the use of an IDE for development of applications contrasted with not using an IDE.**

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**Critically evaluate why a coding standard is necessary in a team as well as for the individual.**

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| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |