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

**P1 Provide a definition of what an algorithm is and outline the process in building an application.**

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| <https://github.com/ibrahimwaheed/Glossary/blob/master/README.md#algorithm>  <https://github.com/ibrahimwaheed/Glossary/blob/master/README.md#process-of-building-an-application> |
| This met the criteria as it gave a definition as to what an algorithm is and what it does. Additionally, it also gives an in-depth description of what the process is for building an application. This is done by explaining each step that is taken to create a program that works. |

**P2 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/ibrahimwaheed/Glossary#paradigms> |
| Met the criteria as it gives a detailed explanation of what procedural, object oriented and event driven programming is. Also explains what kind of characteristics each paradigm has. Explains the relationship between the 3 paradigms. |

**P3 Write a program that implements an algorithm using an IDE.**

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| <https://github.com/ibrahimwaheed/Hi-Low-Game/blob/master/HiLowGame.cpp>  <https://github.com/ibrahimwaheed/Hi-Low-Game/blob/master/HiLowGame.exe>  <https://raw.githubusercontent.com/ibrahimwaheed/Hi-Low-Game/master/CodeScreenshot.PNG> |
| Screenshot is provided of creating the program in an IDE. The source code has been linked with comments. An .exe file has been included so that it can be run once downloaded to show that it works. |

**P4 Explain the debugging process and explain the debugging facilities available in the IDE.**

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| <https://github.com/ibrahimwaheed/Glossary#debugging> |
| Gives a description of what debugging is. Describes what debugging can do to help improve programs. Takes an example of an IDE and explains what debugging features are included. |

**P5 Outline the coding standard you have used in your code.**

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| <https://github.com/ibrahimwaheed/Hi-Low-Game/blob/master/README.md#coding-standards> |
| Outlines what coding standards were used. Describes how they help keep the code readable. Includes why they were used in the first place. |

**M1 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 |

**M2 Analyse the common features that a developer has access to in an IDE.**

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**M3 Use the IDE to manage the development process of the program.**

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**M4 Evaluate how the debugging process can be used to help develop more secure, robust applications.**

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**D1 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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**D2 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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**D3 Evaluate the use of an IDE for development of applications contrasted with not using an IDE.**

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**D4 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 |