**­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> |
| 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 |

**P2 Give explanations of what procedural, object orientated and event driven paradigms are; their characteristics and the relationship between them.**

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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  Definition  What defines them  Compare them similarities |

**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> |
| 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 |

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

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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  What is debugging Glossary  Errors in code  REPL.IT |

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

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**M1 Determine the steps taken from writing code to execution.**

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**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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